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LABORTORY EVALUATION OF LIGHT OBSCURATION PARTICLE COUNTER CONTAMINATION LIMITS FOR AVIATION FUEL

Joel Schmitigal

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November 2015

U.S. Army Tank Automotive Research,
Development, and Engineering Center
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Joel Schmitigal
Force Projection Technology

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Standard Form 298 (Rev. 8/98)

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INTRODUCTION

The U.S. Army maintains the mission of providing quality fuel to U.S. and Allied troops in tactical environments. Presently, requirements as outlined require a dedicated group of specifically trained fuels personnel to perform several tests per day per installation looking for traces of sediment and water in the fuel (1) (2) (3).

The Army utilizes several techniques to ensure that aviation fuels are clean and dry. Despite the best of intentions, the current test methods utilized by the Army have several drawbacks including: timeliness of data due to the turn-around time needed to get the test results, operator subjectivity, lack of detailed analysis, and limitations in providing reliable data. For these reasons the Army has been actively working to develop new methods for monitoring fuel contamination (4) (5).

The Army utilizes ASTM D4176 – Standard Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures) as a final check of fuel to ensure aviation fuel is clear and bright before flight operations.

Fuel filter effectiveness is evaluated by quality assurance testing though conducting periodic fuel sampling for gravimetric analysis. The Army currently utilizes two methods for measuring particulate contamination by gravimetric analysis: ASTM D2276 - Standard Test Method for Particulate Contaminant in Aviation Fuel by Line Sampling, and ASTM D5452 - Standard Test Method for Particulate Contamination in Aviation Fuels by Laboratory Filtration. Additionally, free water content is determined by performing ASTM D3240 – Standard Test Method for Undissolved Water in Aviation Turbine Fuels, commonly termed AquaGlo testing.

Current standards, such as MIL-STD-3004, Department of Defense Standard Practice for Quality Assurance/Surveillance for Fuels, Lubricants, and Related Products and Field Manual No. 10-67-2, Department of the Army Manual for Petroleum Laboratory Testing and Operations, specifies limits for free water and particulate matter in aviation fuels. Specifically, free water contamination in jet fuel cannot exceed 10 parts per million (PPM) (1) and particulate matter contamination cannot exceed 2.0 mg/L for Intra-Governmental transfer receipts and 1.0 mg/L on issue to aircraft, or up to 10 mg/L for product used as a diesel product for ground use (1). At a minimum free water and particulate by color (as specified in the appendix of ASTM D2276) are checked daily, while filter effectiveness is checked every 30 days by gravimetric analysis (ASTM D2276).

One of the problems with the gravimetric methods is the poor repeatability and reproducibility of the methods. ASTM D2276 has a repeatability of 0.25 mg/L and reproducibility of 0.62 mg/L at the 1.0 mg/L contaminate level based on a 5 liter sample, where as the Army utilizes 1 liter samples increasing the associated error. While the published repeatability and reproducibility of ASTM D5452 only spans from 0 to 0.6 mg/L, applying the provided formulas to the 1.0 mg/L contaminate level provides a repeatability of 0.42 mg/L and reproducibility of 0.73 mg/L. Sample volume used to calculate these values is not provided in ASTM D5452, but again 5 liter samples were used to develop these formulas used for these calculations.

PROJECT BACKGROUND

The U.S. Army Tank Automotive Research Development and Engineering Center (TARDEC) has been actively perusing advanced technologies to monitor aviation fuel for particulate and water contamination. The application of light obscuration particle counters for this purpose has risen to the top of available technologies in terms of performance and availability.

The use of particle counting and automatic particle counters for monitoring contamination is frequently used in the hydraulics/hydraulic fluid industry. In 1999 ISO adopted ISO 11171 *Hydraulic fluid power — Calibration of automatic particle counters for liquids*, replacing ISO 4402, as an international standard for the calibration of liquid particle counters giving NIST traceability to particle size measurement, and providing an area equivalent diameter of particles measured. To simplify the reporting of particle counter data, international standard ISO 4406:1999 *Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles* established a standard for grouping the numbers of particles into broad classes or codes. Generally an increase in one ISO code number is caused by a doubling of the contamination level. The Energy Institute (EI) has published guidance documents and test methods relating to fuel quality measurement using electronic sensors. In February 2012 the second edition of EI 1598 *Design, functional requirements and laboratory testing protocols for electronic sensors to monitor free water and/or particulate matter in aviation fuel* was published. In August 2012 EI published the first edition of EI 1570 *Handbook on electronic sensors for the detection of particulate and/or free water during aircraft refueling*. EI has also published three standard test methods for evaluating the particulate matter of fuels using light obscuration particle counters; IP 564 – *Determination of the level of cleanliness of aviation turbine fuel – Laboratory automatic particle counter method*; IP 565 – *Determination of the level of cleanliness of aviation turbine fuel – Portable automatic particle counter method*; IP 577 – *Determination of the level of cleanliness of aviation turbine fuel – Automatic particle counter method using light extinction*. ASTM International adopted ASTM D7619 *Standard Test Method for Sizing and Counting Particles in Light and Middle Distillate Fuels, by Automatic Particle Counter*, which utilizes the same instrumentation as IP 565.

DEF STAN 91-91 (UK), MIL-DTL-83133 (US), and MIL-DTL-5624 (US) all include a report only requirement for particle counting. The U.S. Army (5) (6) (7) (8), U.S. Navy (9) (10), U.S. Air Force, and DLA Energy (11) have conducted laboratory and field evaluations of particle counter technologies for fuel contamination monitoring. Testing has concluded that particle counters are unable to distinguish between free water and particulate contamination; however the technology has shown significant promise in monitoring fuel for total contamination, absent of the contaminate composition information.

Several interested parties, both commercial and military, have proposed limits based on light obscuration particle counting technologies based on ISO 4406:1999 detailed in Table 1 and references (12) (13) (5) (14) (15) (16) (17) (18). As a result of laboratory testing, the U.S. Army has proposed a working cleanliness limit (modified from ISO 4406) of 19/17/14/13 utilizing the

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4µm (c)/ 6µm (c)/ 14µm (c)/ 30µm (c) size channels (5). The 30µm (c) size is included for the detection of free water in the fuel. The proposed ISO code limits of 19/17/14/13 are based on the 1.0 mg/L concentration levels for the A1 and A2 test dusts, and down to a 5 ppm free water presence.

	Receipt	Vehicle Fuel Tank	Fuel Injector
Aviation Fuel			
DEF (AUST) 5695B		18/16/13	
Parker	18/16/13	14/10/7	
Pamas/Parker/Particle Solutions	19/17/12		
U.S. DOD	19/17/14/13*		
Diesel Fuel			
World Wide Fuel Charter 5th		18/16/13	
DEF (AUST) 5695B		18/16/13	
Caterpillar		18/16/13	
Detroit Diesel		18/16/13	
MTU		18/17/14	
Bosch/Cummins		18/16/13	
Donaldson	22/21/18	14/13/11	12/9/6
Pall	17/15/12	15/14/11	12/9/6 11/8/7

Table 1. Proposed Particle Counter Limits

*addition of 30 micron channel proposed by U.S. Army for detection of free water.

APPROACH

The particle counter limit evaluation took place at TARDEC's Army Petroleum Laboratory (APL) in New Cumberland, Pennsylvania. APL provides quality surveillance of U.S. Government owned petroleum products worldwide and provides technical support to Army installations by providing laboratory testing services of their bulk fuels supplies including filter effectiveness testing to ensure that the product meets specifications and environmental requirements.

To evaluate the proposed light obscuration particle counter limit, a particle counter specified by IP 564 and a particle counter specified in IP 565 and ASTM D7619 was provided to the APL to test field samples that come in from locations across the United States.

Each sample was particle count tested via IP 564 (first 59 samples) or IP 565/ASTM D7619 and ASTM D5452 to measure the particulate contamination content by gravimetric determination. Additionally free water content is determined by performing ASTM D3240 – Standard Test Method for Undissolved Water in Aviation Turbine Fuels was performed when particle counts exceeded the proposed 19/17/14/13 limits, but the gravimetric measurements were below 1.0 mg/L.

ANALYSIS

From September 2012 thru October 2015, 1744 samples were tested for foreign contamination, being either particulate or free water, Appendix A. 1469 of the tested samples passed both the 1.0 mg/L gravimetric limit and the 19/17/14/13 particle count limit, with 275 samples failing either the particle count or gravimetric limit, or both test limits. 220 of the 275 samples tested failed the particle count limit and 183 of the 275 samples failed the gravimetric limit, 128 of the samples failed both the particle count and the gravimetric limit. 55 samples gave a false negative response to the proposed particle count limits by failing the gravimetric limit but passing the particle count limit. 92 samples gave a false positive response to the particle count limit by failing the particle count limit, but passing the gravimetric limit of 1.0 mg/L.

False Negatives

An analysis of the 55 false negatives which had a gravimetric measurement over 1.0 mg/L but a particle count under 19/17/14/13, showed that 41 of these samples may have a gravimetric contaminate load lower than the 1.0 mg/L limit based on lack of precision of ASTM D5452. While the published repeatability of ASTM D5452, Equation 1, only spans from 0 to 0.6 mg/L applying the provided formulas to the 1.0 mg/L contaminate level provides a repeatability of 0.42 mg/L. Also the sample volume used to develop this formula was 5 liters while the testing at APL only utilizes 1 liter, compounding potential error.

$$r = 0.415x^{0.5}$$

Equation 1. ASTM D5452 repeatability

Fourteen samples that have a high gravimetric measurement cannot be accounted for with particle counter readings. There is the potential that particles are present on the gravimetric filter pad that has a nominal pore size of 0.8µm that could be either smaller than 4µm (c) or greater than 200µm (c) in the case of the IP 564 instrumentation or 70µm (c) in the case of the IP 565 specified instrumentation. It has been requested that the laboratory photograph filter pads with a greater than 1.0 mg/L particle loading for visual analysis, as particles greater than 70µm or 200µm (c) would be visible to the naked eye and heavily contribute to the mass load of the tested filter. Examples of filters with large particles are shown in Figure 1. It has also been requested that failed gravimetric samples be performed in duplicate to determine if poor measurement repeatability of ASTM D5452 is leading to false negatives of the particle counter agreement.



Figure 1. Examples of filter monitors with large visible particulates

False Positives

An analysis of the 92 false positives which had a gravimetric measurement under 1.0 mg/L but a particle count over 19/17/14/13, showed that 41 of these samples may have a gravimetric contaminate load higher than the 1.0 mg/L limit based lack of precision of ASTM D5452. 88 samples were high in the 6 μ m (c), 14 μ m (c), and/or 30 μ m (c) channels indicating the potential for free water contamination. 8 of these samples were tested via ASTM D3240 and confirmed contain greater than 5.0 ppm free water, 13 samples contained 1-5 ppm, while 40 fuel samples were absent of free water, and 27 samples were not tested for free water. The utilization of glassware to transfer the fuel through the ASTM D3240 filter pad may have adversely impacted the free water measurements. The utilization of co-solvent as specified in Annex B of the test method may be a better method to determine water attribution to particle count measurements.

18/16/13 Limit Evaluation

Several organizations have proposed the use of 18/16/13 limits utilizing the 4 μ m (c)/ 6 μ m (c)/ 14 μ m (c) size channels as detailed in Table 1. The 1744 samples analyzed were evaluated against these proposed limits. 1184 of the tested samples passed both the 1.0 mg/L gravimetric limit and the 18/16/13 particle count limit, as opposed to the 1469 samples that passed both the 1.0 mg/L and 19/17/14/13 limits. Utilizing the 18/16/13 limits reduces the number of false negatives, failing the gravimetric limit but passing the particle count limit, from 55 down to 29 for a 47% reduction. The 18/16/13 limits increased the number of false positives from 92 up to 377 for a 310% increase.

Comparing the 18/16/13 particle count limit to 0.5 mg/L gravimetric limit specified in ATA 103 (19) to the data collected under this effort shows 809 of the samples collected failing either the particle count or the gravimetric limit, 354 of which failed both methods. 278 false negatives were recorded where the sample failed the gravimetric but passed the particle count and 177 false positives where the particle count was higher than the proposed limit but the gravimetric load was lower than the 0.5 mg/L limit. The false negative readings may again be affected by

the repeatability of ASTM D5452 which is 0.293mg/L at the 0.5mg/L limit which calls into question up to 233 or the 278 false negatives, 110 of the 177 false positives may also be affected by this. Additionally the presence of free water at levels as low as 5 ppm, 15ppm specified in ATA 103, has shown produce particle counts exceeding the 19/17/14/13 limits proposed by the U.S. DOD, and may be contributing to the number of false positives identified.

CONCLUSIONS AND RECOMENDATIONS

The laboratory data collected supports the U.S. Department of Defense ISO code limits of 19/17/14/13, developed from 1.0 mg/L concentration levels for the A1 and A2 test dusts, and down to a 5 ppm free water presence.

To identify the cause of false negatives filter monitor pads with a greater than 1.0 mg/L, particle loading should be evaluated via visual analysis as particles greater than 70µm or 200µm (c) would be visible to the naked eye and heavily contribute to the mass load of the tested filter. Filter monitors that have sediment loading greater than 1.0mg/L should also be filtered in duplicate to determine if poor measurement repeatability of ASTM D5452 is leading to false negatives of the particle counter agreement.

The Department of Defense is moving forward with the 19/17/14/13 limits for the 4µm (c)/ 6µm (c)/ 14µm (c)/ 30µm (c) size channels for inclusion into Table I of MIL-STD-3004D change 1 as an acceptable method for particulate matter with the stipulation (requirement) to perform follow on testing for particulate matter via ASTM D5452 and water via ASTM D3240 for product exceeding the limits.

REFERENCES

1. **Department of Defense Standard Practice.** Quality Assurance/Surveillance for Fuels, Lubricants and Related Products. *MIL-STD-3004C w/change 1*. December 7, 2012.
2. **Headquarters Department of the Army.** Petroleum Laboratory Testing and Operations. *Field Manual No. 10-67-2*. Washington DC : s.n., April 2, 1997.
3. —. Concepts and Equipment of Petroleum Operations. *Field Manual No. 10-67-1*. Washington DC : s.n., April 2, 1998.
4. **Schmitigal, J., Cox, D., Boenker, M., Krizovensky, J.O.** Update on the US Army's Fuel Contamination Detection Efforts. Seattle, Washington : Coordinating Research Council, Inc. 2011 Aviation Technical Committee Meetings, May 2011.
5. **Besse, G., Schmitigal, J.** Army's Evaluation of Aviation Fuel Contaminants Using Electronic Sensors. Alexandria VA : Coordinating Research Council, Inc. Vols. 2013 Aviation Technical Committee Meetings, May 2012.
6. **Schmitigal, J. and Bramer, J.** Field Evaluation of Particle Counter Technology for Aviation Fuel Contamination Detection – Fort Rucker. *TARDEC Technical Report 23966*. 2013.
7. **Schmitigal, J.** Evaluation of Particle Counter Technology for Detection of Fuel Contamination Detection utilizing Advanced Aviation Forward Area Refueling System. *TARDEC technical report*. Warren : s.n., 2014.
8. —. Evaluation of On-line Light Obscuration Particle Counters for Detection of Fuel Contamination. Warren, MI : s.n., August 2014. Vol. TARDEC Technical Report 25587.
9. **Dickerson, T.** Navy Field Evaluation of Particle Counter Technology for Aviation Fuel Contamination Detection. *NF&LCFT REPORT 441/14-003*. Patuxent River, MD : Naval Air Systems Command, February 6, 2014.
10. **Bigus, J. and Krizovensky, J.** Evaluation of On-line Light Obscuration Particle Counters for Detection of Fuel Contamination. Patuxent River, MD : Evaluation of On-line Light Obscuration Particle Counters for Detection of Fuel Contamination, February 9, 2012.
11. **Bessee, G.** Procurement of Instruments and Limited Comparison Study for Field Evaluation of Automatic Particle Counters. 2014. Vol. SwRI® Project No. 08.15954.08.001.
12. **Felder, M.** The use of Light Obscuration Particle Counting to Study Dispersed Solid Contamination in Aviation Turbine Fuel at Kandahar Airbase, Afghanistan. [ed.] Parker. Sarasota, FL : IASH 2011 12th International Conference on Stability, Handling and Use of Liquid Fuels, October 2011.
13. **Bauer, C.** Bulk Diesel Fuel Filtration –A Sensible Investment. [ed.] Pall Corporation. Sarasota, FL : IASH 2011 12th International Conference on Stability, Handling and Use of Liquid Fuels, 2011.
14. **Dallas, A., Block, J., Klick, P., Grove, B., Zastera, D., Doyle, J., Johnson, P., Elsayed, Y.** Contamination Found on Diesel Fuel Storage Tank Filters. [ed.] Donaldson Filtration Solutions. Sarasota, FL : IASH 2011 12th International Conference on Stability, Handling, and Use of Liquid Fuels, October 2011.
15. **Cummins Inc., BOSCH.** Joint Position on Fuel Quality for Common Rail Diesel Engines. December 7, 2011.
16. **Worldwide Fuel Charter**, Fifth Edition. September 2013.
17. **Commonwealth of Australia.** Petroleum, Oils and Lubricants Manual DEF(AUST)5695B. *Australian Defense Standard*.

18. Pamas, Parker, Particle Solutions. A Proposal for quantitative Particle Counting Limits in Def-Stan 91-91. *AFC Meeting*. February 28-29, 2012.

19. American Transport Association. ATA Specification 103: Standards for Jet Fuel Quality Control. 2009. Vol. 2009.1.

LIST OF SYMBOLS ABBREVIATIONS AND ACRONYMS

μm	Micrometer
ASTM	ASTM International
ATA	Air Transport Association
AUST	Australia
EI	Energy Institute
IP	Institute of Petroleum
ISO	International Organization for Standardization
L	Liter
mg/L	Milligrams per Liter
MIL	Military
ppm	Parts Per Million
STD	Standard
TARDEC	Tank Automotive Research Development and Engineering Center
U.S.	United States

Appendix A Data

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
19-Sep-12	7459	0.57		2504.8	788.9	50.8	14.6	504.0	1.7	19	17	13	8
19-Sep-12	7460	0.32		1217.9	311.2	12.6	3.4	1.2	0.3	17	15	11	5
19-Sep-12	7461	0.52		1418.1	226.7	3.6	0.9	0.3	0.2	18	15	9	5
19-Sep-12	7462	0.35		1767.2	480.8	31.0	7.9	2.3	0.7	18	16	12	7
19-Sep-12	7496	0.30		934.6	344.6	32.9	11.2	4.7	1.9	17	16	12	8
19-Sep-12	7497	0.31		1145.0	372.5	41.1	17.6	9.4	4.7	17	16	13	9
19-Sep-12	7507	1.26		3921.7	1868.4	232.4	72.9	27.9	7.6	19	18	15	10
20-Sep-12	7521	0.47		2608.7	889.2	83.0	27.8	11.1	4.2	19	17	14	9
20-Sep-12	7522	0.51		1654.4	553.3	37.2	10.0	3.2	0.9	18	16	12	7
20-Sep-12	7523	0.31		2780.7	920.3	84.6	30.6	13.5	5.9	19	17	14	10
24-Sep-12	7562	0.37		1046.7	410.9	40.6	12.0	5.5	2.2	17	16	13	8
24-Sep-12	7563	0.22		710.7	269.0	25.0	8.0	3.0	1.0	17	15	12	7
24-Sep-12	7564	0.42		1202.2	499.1	60.2	22.4	10.5	3.9	17	16	13	9
24-Sep-12	7580	0.44		503.9	174.4	13.2	4.4	1.8	0.7	16	15	11	7
24-Sep-12	7581	0.33		1029.4	396.4	44.8	17.6	8.4	3.6	17	16	13	9
24-Sep-12	7582	0.02		1638.4	463.4	53.5	20.1	7.1	1.7	18	16	13	8
24-Sep-12	7583	0.37		1194.9	370.4	39.5	14.2	4.8	1.1	17	16	12	7
24-Sep-12	7584	0.33		827.3	325.4	34.7	12.7	6.1	2.5	17	16	12	8
1-Oct-12	7686	0.11		1147.2	726.5	242.5	101.7	37.4	12.6	17	17	15	11
1-Oct-12	7687	0.35		1250.9	499.4	53.8	18.2	7.5	2.8	17	16	13	9
1-Oct-12	7760	1.00		3895.6	1327.8	78.2	21.5	7.8	2.6	19	18	13	9
1-Oct-12	7705	0.13		3659.5	1550.9	212.1	78.4	31.8	9.4	19	18	15	10
2-Oct-12	62	0.26		1131.4	440.7	44.9	16.2	7.7	2.6	17	16	13	9
16-Oct-12	239	0.31		1322.5	489.2	35.8	8.4	2.9	0.9	18	16	12	7
17-Oct-12	319	0.75		968.5	453.9	96.5	34.7	13.4	4.8	17	16	14	9
	327	0.81		1290.4	530.9	64.8	22.2	8.5	2.6	17	16	13	9
19-Oct-12	320	0.37		1359.5	512.1	43.1	13.3	5.9	2.3	18	16	13	8
	321	0.44		1202.4	438.6	41.8	14.8	6.7	2.7	17	16	13	9
16-Nov-12	849	0.35		1096.6	409.1	34.6	11.1	5.0	2.0	17	16	12	8
	850	0.46		1035.1	448.8	53.3	19.8	9.3	4.0	17	16	13	9
	884	0.20		650.1	317.3	43.3	17.2	9.0	3.7	17	15	13	9
	885	0.41		657.1	329.5	51.3	21.0	10.7	5.0	17	16	13	9
	886	0.17		673.0	339.2	49.7	19.9	10.0	4.8	17	16	13	9
	887	0.50		499.9	243.8	40.7	17.0	8.5	4.4	16	15	13	9
3-Apr-13	B191	0.00		300.7	125.1	16.5	6.5	3.8	1.8	15	14	11	8
	B192	0.30		426.5	160.6	13.6	3.4	0.9	0.2	16	15	11	5
	B196	0.46		1235.5	450.6	39.6	13.1	5.3	1.9	17	16	12	8
	B197	0.59		1291.5	505.0	51.1	18.9	8.6	3.5	17	16	13	9
	B198	0.53		763.8	258.6	20.0	6.8	2.9	1.2	17	15	11	7
	B200	0.45		666.2	186.2	12.0	4.2	1.6	0.7	17	15	11	7
	B201	0.50		1104.9	434.5	47.7	17.6	8.0	3.3	17	16	13	9
	B202	0.40		1065.0	314.2	26.9	9.8	4.9	2.2	17	15	12	8
4-Apr-13	B203	0.16		923.0	272.6	16.3	4.6	1.6	0.6	17	15	11	6
	B204	0.38		749.2	254.8	23.4	7.7	3.3	1.3	17	15	12	7
	B205	1.53		2425.3	1008.7	98.8	31.9	12.5	3.6	18	17	14	9
	B206	0.14		1080.8	384.8	47.8	20.5	107.0	4.4	17	16	13	9
	B208	0.45		2201.9	483.2	35.1	15.8	7.0	2.0	18	16	12	8
	B209	0.20		1039.3	379.2	36.4	13.2	6.0	2.2	17	16	12	8
15-May-13	B300	0.10		1684.5	525.0	27.9	8.6	4.7	1.2	18	16	12	7
	B301	0.20		943.8	360.8	25.5	7.7	4.6	2.0	17	16	12	8
	B303	0.40		831.6	278.0	13.4	3.0	1.3	0.5	17	15	11	6
30-May-13	B331	0.30		545.1	211.8	13.2	3.1	1.4	0.4	16	15	11	6
31-May-13	B320	0.90		753.7	267.4	12.4	3.2	1.3	0.4	17	15	11	6
	B321	0.00		560.1	216.0	19.2	6.9	4.1	1.4	16	15	11	8
	B322	0.60		489.2	206.5	24.6	9.9	6.3	2.4	16	15	12	8
	B323	0.30		862.8	339.6	27.9	7.8	3.6	1.1	17	16	12	7
	B324	0.50		299.9	134.2	16.2	6.2	3.7	1.4	15	14	11	8
	B325	0.50		972.4	309.2	11.4	2.0	0.7	0.1	17	15	11	4
	B326	0.20		965.9	299.5	5.8	0.7	0.2	0.1	17	15	10	4
26-Nov-13	B785	0.19		1407.3	646.1	95.5	30.3	15.3	6.7	18	17	14	10
	B786	0.45		1648.9	752.0	113.8	36.7	16.5	5.6	18	17	14	10
	B787	0.63		2551.6	1106.6	156.8	44.0	20.3	7.5	19	17	14	10
	B792	0.61		1248.2	497.1	62.7	17.4	8.5	3.9	17	16	13	9
	B793	0.11		1128.0	502.5	65.0	21.8	10.7	4.7	17	16	13	9
	B794	0.31		1504.4	640.2	50.2	11.1	4.6	1.6	18	17	13	8
	B795	0.31		1095.0	506.0	81.6	26.1	12.8	5.1	17	16	14	10
	B796	0.23		1669.8	436.7	20.8	5.4	2.0	0.8	18	16	12	7
	B797	0.32		1667.6	429.8	21.2	5.3	2.5	0.9	18	16	12	7
	B880	0.75		2328.8	870.8	147.5	59.2	34.2	17.4	18	17	14	11
	B881	0.33		794.8	270.0	31.3	10.4	5.8	2.5	17	15	12	8

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
3-Dec-13	B887	0.66		1886.3	744.0	115.6	39.9	19.5	8.4	18	17	14	10
	B888	0.33		703.4	286.10	42.00	14.50	7.8	3.7	17	15	13	9
	B889	0.34		2539.6	750.7	81.5	20.1	8.5	2.7	19	17	14	9
	B890	0.31		983.1	377.7	37.9	9.6	4.6	1.8	17	16	12	8
	B891	0.23		847.7	323.3	31.0	8.1	3.4	1.6	17	16	12	8
	B892	0.42		1506.0	532.7	51.2	13.0	5.5	1.9	18	16	13	8
4-Dec-13	B882	0.76		3535.8	1090.1	85.6	24.3	11.8	4.5	19	17	14	9
	B883	0.27		1178.0	531.8	71.2	21.8	10.8	4.6	17	16	13	9
5-Dec-13	B893	0.08		1901.5	786.9	82.3	19.2	8.1	3.0	18	17	14	9
	B894	1.66		12808.8	4536.4	341.2	82.6	37.0	13.3	21	19	16	11
	B895	0.81		3716.0	1370.6	138.4	33.5	14.7	5.3	19	18	14	10
	B896	0.34		1598.8	561.5	68.1	20.4	9.8	4.3	18	16	13	9
	B897	0.27		1451.8	519.8	52.7	13.8	7.0	3.2	18	16	13	9
	B898	0.41		256.3	87.5	8.4	2.3	1.2	0.4	15	14	10	6
	B905	0.46		1805.5	624.5	66.3	19.5	9.3	4.6	18	16	13	9
	B906	0.38		1496.4	595.6	61.2	17.6	8.6	4.3	18	16	13	9
	B907	0.22		1367.5	526.7	55.0	17.6	8.6	3.9	18	16	13	9
	B908	1.34		8139.2	3140.5	362.7	83.3	36.0	12.8	20	19	16	11
	B909	0.38		1349.4	550.3	60.7	17.9	9.3	4.2	18	16	13	9
	B910	0.43		2087.80	827.9	96.8	30.8	14.7	5.9	18	17	14	10
	B911	0.22		979.2	381.4	40.5	11.4	5.7	2.3	17	16	13	8
	B912	0.61		2259.1	603.3	37.9	10.3	4.7	2.0	18	16	12	8
	B913	0.41		2001.5	673.5	70.9	21.0	10.8	4.9	18	17	13	9
	B914	0.60		1329.4	466.2	44.8	11.3	5.1	2.0	18	16	13	8
10-Dec-13	B915	0.84		1478.5	633.2	68.9	19.8	9.8	4.1	18	16	13	9
	B916	0.35		1062.9	394.0	41.6	13.0	6.4	2.7	17	16	13	9
	B917	0.38		850.2	318.9	36.4	12.3	6.6	3.0	17	15	12	9
11-Dec-13	B978	0.32		351.4	145.3	42.0	15.3	8.1	4.2	16	14	13	9
	B979	0.28		1206.5	486.7	92.0	25.4	10.7	3.7	17	16	14	9
	B980	0.21		355.9	146.1	29.1	11.6	6.0	3.1	16	14	12	9
	B981	0.25		390.3	201.5	95.1	43.5	26.8	15.7	16	15	14	11
	B982	0.48		313.7	179.2	93.3	41.3	23.8	11.5	15	15	14	11
	B983	0.30		812.6	258.1	70.5	34.6	20.5	11.8	17	15	13	11
13-Dec-13	B987	0.29		434.7	162.3	15.6	5.2	3.0	1.5	16	15	11	8
	B988	0.30		1197.4	419.0	46.0	14.8	7.9	3.7	17	16	13	9
16-Dec-13	B989	0.59		3259.0	1118.8	85.8	20.7	9.6	3.4	19	17	14	9
	B990	0.56		4925.1	1646.1	121.5	33.8	16.3	7.4	19	18	14	10
	B991	0.50		1341.1	508.0	55.7	17.8	8.7	3.7	18	16	13	9
	B992	0.46		1409.8	539.9	56.2	17.3	8.8	3.0	18	16	13	9
	B993	0.78		1957.6	793.3	88.5	25.4	12.0	4.5	18	17	14	9
	B994	0.56		1511.8	580.0	67.4	21.9	11.8	5.6	18	16	13	10
18-Dec-13	B996	0.39		226.3	97.3	13.6	4.3	2.0	0.8	15	14	11	7
	B997	0.46		915.7	328.2	37.6	13.4	7.1	3.4	17	16	12	9
	B998	0.53		2426.1	767.9	66.3	18.9	9.2	4.6	18	17	13	9
24-Dec-13	B999	0.51		1811.1	717.5	64.7	16.3	8.5	3.2	18	17	13	9
	B1000	0.67		3761.7	1380.4	109.3	25.9	12.1	4.7	19	18	14	9
	B1001	0.26		1588.3	631.0	70.5	19.9	8.5	3.3	18	16	13	9
	B1002	0.22		1506.0	649.9	81.2	23.2	11.7	4.8	18	17	14	9
	B1003	0.60		1341.4	556.3	68.4	22.1	12.0	5.1	18	16	13	10
	B1004	0.61		1682.1	631.7	70.4	21.2	11.1	4.9	18	16	13	9
	B1005	0.31		940.4	394.7	30.6	6.9	3.4	1.1	17	16	12	7
	B1012	0.41		1034.6	342.8	38.5	10.9	4.3	1.4	17	16	12	8
	B1013	0.36		828.4	295.8	33.3	9.1	4.5	2.0	17	15	12	8
26-Dec-13	B1014	0.07		171.8	68.6	9.5	2.6	1.2	0.5	15	13	10	6
	B1015	0.20		1509.6	506.6	46.5	13.2	5.3	2.1	18	16	13	8
27-Dec-13	B1017	0.30		751.6	262.6	31.4	8.9	5.1	2.5	17	15	12	8
	B1018	0.34		393.9	182.1	29.9	9.8	4.6	2.5	16	15	12	8
	B1019	0.72		3474.0	1971.1	138.6	4.1	19.9	8.5	19	18	14	10
31-Dec-13	B1027	0.47		1531.0	565.9	53.5	15.1	7.0	7.0	18	16	13	10
	B1028	0.39		1436.9	494.6	60.6	23.0	12.6	6.8	18	16	13	10
8-Jan-14	B1032	0.66		567.4	197.5	11.4	2.9	1.2	0.7	16	15	11	7
	B1033	0.37		419.7	143.7	17.1	6.0	3.2	1.5	16	14	11	8
	B1034	0.37		648.7	222.6	23.7	7.2	3.5	1.7	17	15	12	8
	B1035	0.83		771.9	219.2	26.6	11.3	6.6	3.7	17	15	12	9
9-Jan-14	B1036	0.34		1028.8	398.1	53.6	18.7	10.1	4.5	17	16	13	9
	B1037	0.54		2003.9	867.9	153.7	56.0	29.8	13.1	18	17	14	11
	B1038	0.45		1070.9	435.9	73.3	27.8	15.6	7.2	17	16	13	10
	B1039	0.83		6210.5	2166.1	205.1	55.5	24.2	8.7	20	18	15	10
	B1040	0.23		1264.3	512.0	65.6	22.7	11.1	4.8	17	16	13	9
	B1041	0.19		1704.6	498.3	50.4	14.6	7.5	3.4	18	16	13	9

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B1042	0.29		1181.9	432.1	55.8	21.0	10.8	5.0	17	16	13	9
	B1043	0.29		1922.0	448.8	25.8	6.8	3.8	1.7	18	16	12	8
	B1044	0.39		984.2	287.5	27.6	9.3	4.7	2.2	17	15	12	8
10-Jan-14	B1046	0.61		405.6	149.8	23.5	7.0	3.3	1.2	16	14	12	7
	B1047	0.57		510.7	175.4	32.2	11.8	6.2	2.4	16	15	12	8
	B1048	0.44		226.3	84.9	14.8	5.4	2.9	1.1	15	14	11	7
	B1049	0.22		204.8	85.9	18.0	6.9	4.5	2.9	15	14	11	9
	B1050	0.39		375.5	158.3	26.6	8.8	4.4	1.4	16	14	12	8
	B1051	0.34		279.3	86.0	12.6	5.0	2.8	1.2	15	14	11	7
	B1052	0.22		205.3	80.7	11.0	2.7	1.2	0.4	15	14	11	6
	B1053	0.09		95.5	35.3	4.3	1.2	0.5	0.2	14	12	9	5
	B1054	0.73		5868.1	1579.4	140.1	38.8	17.3	5.6	20	18	14	10
	B1055	0.61		1715.7	630.1	86.6	26.7	11.3	3.7	18	16	14	9
	B1058	0.25		1515.1	559.0	78.1	25.0	13.0	6.3	18	16	13	10
	B1059	0.85		1418.6	462.0	51.4	14.6	7.6	3.6	18	16	13	9
	B1060	0.36		285.3	105.4	12.3	4.6	2.5	1.3	15	14	11	7
21-Jan-14	B1063	0.09		785.6	340.9	51.0	18.0	9.1	4.3	17	16	13	9
	B1064	0.21		1078.6	436.6	55.0	18.7	10.1	4.4	17	16	13	9
	B1065	0.07		497.2	199.5	27.7	10.1	5.3	2.7	16	15	12	9
	B1066	0.33		484.4	221.7	33.1	12.0	6.0	2.5	16	15	12	8
	B1067	1.72		11141.8	4354.1	231.5	59.3	26.5	12.4	21	19	15	11
	B1068	1.64		4767.7	1944.3	164.9	52.5	27.7	13.8	19	18	15	11
	B1069	1.20		3437.2	1446.1	127.9	36.7	18.3	9.4	19	18	14	10
	B1070	0.38		218.1	118.3	16.9	5.3	2.6	1.0	15	14	11	7
	B1071	0.24		1485.3	295.2	7.0	2.0	0.8	0.2	18	15	10	5
	B1072	0.40		1374.9	306.6	9.6	1.6	0.6	0.3	18	15	10	5
30-Jan-14	B1073	0.32		622.4	247.1	30.1	9.1	4.2	1.5	16	15	12	8
	B1074	0.37		367.1	143.1	13.9	3.9	1.8	1.1	16	14	11	7
	B1075	0.17		1010.2	392.5	41.1	11.8	5.7	2.4	17	16	13	8
	B1076	0.45		1325.6	534.2	83.1	29.6	15.5	7.0	18	16	14	10
	B1077	0.32		1026.1	349.3	31.2	8.8	4.4	2.2	17	16	12	8
	B1078	0.19		1054.2	486.3	62.2	17.7	8.0	3.2	17	16	13	9
	B1080	0.39		1264.2	451.0	44.7	12.8	6.9	3.2	17	16	13	9
	B1081	0.39	2.2 PPM	960.0	377.5	79.6	44.5	35.8	26.8	17	16	13	12
	B1082	0.72		1679.2	587.8	54.8	16.9	7.6	3.1	18	16	13	9
	B1083	0.27	45.2 PPM	2466.7	1151.5	442.5	246.0	180.1	118.2	18	17	16	14
	B1084	0.46	4.4 PPM	1550.9	658.5	137.3	62.3	42.5	27.5	18	17	14	12
	B1085	0.34	1.2 PPM	1687.0	661.7	107.8	44.8	28.3	16.3	18	17	14	11
	B1100	0.80	2.7 PPM	3310.8	1457.4	145.0	30.7	10.8	2.7	19	18	14	9
3-Feb-14	B1101	0.23		563.4	221.8	23.8	6.7	3.1	1.3	16	15	12	7
7-Feb-14	B1103	0.22		333.0	127.9	14.8	4.2	2.0	0.7	16	14	11	7
	B1104	0.06		478.2	177.5	22.6	6.5	3.0	1.5	16	15	12	8
	B1105	0.19		610.7	212.2	22.7	7.2	3.7	1.6	16	15	12	8
	B1106	0.24		414.2	128.7	15.8	5.8	2.8	1.3	16	14	11	7
	B1107	0.30		1231.9	404.3	29.9	7.3	3.2	1.0	17	16	12	7
	B1108	0.34		1293.0	420.8	29.6	8.1	4.8	2.7	17	16	12	9
	B1109	0.35	0.1 PPM	3862.1	717.2	38.3	9.1	3.9	1.6	19	17	12	8
	B1113	0.14		269.4	116.0	13.1	3.6	1.7	0.5	15	14	11	6
	B1114	0.52	0.2 PPM	2306.0	945.9	139.1	50.7	29.2	13.4	18	17	14	11
	B1115	0.39		983.7	386.2	47.7	16.0	8.8	4.1	17	16	13	9
	B1116	0.19		749.0	313.8	48.2	16.8	9.0	4.7	17	15	13	9
	B1117	0.20		884.7	406.2	63.0	19.4	9.9	4.1	17	16	13	9
	B1118	1.16		1123.9	454.1	64.0	17.9	8.2	3.1	17	16	13	9
	B1119	0.39		379.0	180.6	32.5	11.1	5.3	2.3	16	15	12	8
	B1120	0.19		531.6	205.8	22.7	7.5	3.7	1.9	16	15	12	8
10-Feb-14	B1121	0.07		270.8	91.6	9.4	2.9	1.5	0.7	15	14	10	7
	B1122	0.33		1010.9	376.5	47.0	15.1	7.9	3.5	17	16	13	9
18-Feb-14	B1123	0.47		875.2	335.7	36.5	12.0	6.2	2.6	17	16	12	9
24-Feb-14	B767	0.45		1455.8	702.9	96.4	30.0	15.1	6.0	18	17	14	10
	B531	0.75		2449.5	1163.6	108.8	32.1	15.1	5.9	18	17	14	10
	B532	0.40		1035.2	538.9	80.4	25.1	11.7	4.6	17	16	14	9
	B570	0.32		1012.1	608.5	95.5	26.0	11.0	3.5	17	16	14	9
	B769	1.62		651.2	324.6	71.1	28.8	16.1	7.5	17	16	13	10
	B516	0.30		150.4	105.5	41.9	18.2	10.5	5.0	14	14	13	9
	B765	1.49		1419.0	751.4	180.3	72.1	38.8	16.8	18	17	15	11
	B563	0.40		246.6	152.1	43.9	16.8	8.6	3.2	15	14	13	9
	B518	0.34		1202.9	692.6	89.8	24.1	10.5	4.0	17	17	14	9
	B567	1.62		1250.6	850.7	130.8	32.7	13.1	4.2	17	17	14	9
	B1144			206.0	78.2	9.4	3.0	1.4	0.5	15	13	10	6
	B448	0.78		1340.0	760.5	106.7	34.7	17.6	8.2	18	17	14	10

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B525	0.44		1196.1	693.0	105.5	36.2	19.2	8.7	17	17	14	10
	B483	0.46		710.2	339.4	49.5	18.6	9.8	4.3	17	16	13	9
	B484	1.12	0.4 PPM	2111.3	1022.4	164.5	57.5	29.1	12.3	18	17	15	11
	B545	0.35		139.9	97.8	19.3	5.5	2.4	0.7	14	14	11	7
	B524	0.18		235.5	151.8	48.0	19.6	10.4	4.5	15	14	13	9
	B578	0.38		550.5	328.5	43.1	10.5	4.2	1.6	16	16	13	8
	B564	0.74		845.3	486.7	62.8	16.8	7.2	3.0	17	16	13	9
	B446	0.42		2492.8	1287.4	180.3	58.6	29.5	13.1	18	17	15	11
	B1145			806.9	324.4	51.0	18.2	7.7	2.3	17	16	13	8
	B1146			923.7	393.6	60.2	18.8	9.8	4.1	17	16	13	9
	B1147			1602.5	615.6	72.3	21.0	9.6	3.6	18	16	13	9
	B461	0.56		730.1	474.1	106.1	36.1	18.7	8.1	17	16	14	10
	B465	0.21		270.4	176.0	38.0	13.5	7.0	3.5	15	15	12	9
	B404	0.20		437.2	281.7	51.2	16.7	8.8	3.6	16	15	13	9
	B482	4.78		453.8	321.5	111.6	50.5	30.5	15.1	16	16	14	11
	B485	0.99	0.4 PPM	4961.2	2439.1	267.4	61.4	26.2	9.7	19	18	15	10
	B572	0.61		1268.6	818.5	117.9	29.8	12.4	4.1	17	17	14	9
	B577	0.31		647.9	353.1	42.6	12.6	6.2	2.5	17	16	13	8
	B762	0.14		462.6	273.1	60.3	23.9	12.7	5.9	16	15	13	10
	B506	1.03		213.5	158.8	67.1	30.9	16.6	7.1	15	14	13	10
	B542	0.12		273.4	171.1	22.2	7.1	3.5	1.3	15	15	12	7
	B466	0.61		568.9	311.5	44.7	14.1	7.6	3.3	16	15	13	9
	B500	0.37		124.4	96.3	36.9	12.6	6.4	2.5	14	14	12	8
	B544	0.24		340.1	194.3	20.8	4.9	2.2	0.9	16	15	12	7
	B502	0.36		269.2	185.2	58.6	20.6	10.0	4.4	15	15	13	9
	B459	0.51		168.1	111.3	23.7	7.7	3.2	1.2	15	14	12	7
	B543	0.40		103.4	60.2	9.1	2.9	1.4	0.9	14	13	10	7
	B467	0.96		331.0	185.3	30.3	10.3	5.3	2.7	16	15	12	9
	B468	0.39		136.8	83.8	16.1	5.1	3.0	1.4	14	14	11	8
	B575	0.35		214.7	129.4	32.9	12.3	6.5	3.3	15	14	12	9
	B416	0.00		870.0	532.2	86.6	26.1	12.3	5.0	17	16	14	9
	B453	0.54		3352.1	1452.5	128.0	35.1	17.4	8.3	19	18	14	10
	B451	0.73		1631.9	551.8	93.9	36.9	24.1	17.5	18	16	14	11
	B480	0.88		1058.0	617.7	150.3	54.3	28.3	12.7	17	16	14	11
	B479	0.42		285.6	160.8	52.0	24.7	14.3	7.6	15	15	13	10
	B763	0.22		633.7	371.7	70.4	22.7	11.2	4.4	16	16	13	9
	B773	0.29		1110.8	556.5	93.7	35.2	19.5	9.3	17	16	14	10
	B574	0.37		1731.0	625.7	58.2	17.1	8.3	3.2	18	16	13	9
	B764	0.27		360.1	236.5	58.8	21.8	12.3	5.2	16	15	13	10
	B418	0.20		664.9	398.3	71.3	21.6	9.8	3.9	17	16	13	9
	B768	0.37		724.0	414.5	80.6	29.7	15.2	7.5	17	16	14	10
	B519	0.56		821.0	484.7	110.6	47.1	29.3	17.8	17	16	14	11
	B766	0.26		1200.0	572.4	95.5	34.1	17.5	8.0	17	16	14	10
	B770	0.51		718.9	330.0	78.5	36.7	21.5	10.6	17	16	13	11
	B474	0.12		301.0	209.8	53.5	16.4	7.9	2.8	15	15	13	9
	B566	6.00		3686.0	2126.5	559.2	271.3	169.9	94.9	19	18	16	14
	B347	0.10		345.5	167.8	43.9	19.5	9.8	4.3	16	15	13	9
	B510	0.18		507.8	277.2	33.9	9.5	5.0	2.4	16	15	12	8
	B428	0.20		1538.7	709.7	90.0	27.0	12.8	5.0	18	17	14	9
	B357	0.40		762.3	527.3	165.5	64.7	34.2	13.3	17	16	15	11
	B350	1.50		8487.4	2739.0	333.2	107.6	52.2	21.7	20	19	16	12
	B425	0.40		560.5	301.3	57.9	22.7	12.5	5.8	16	15	13	10
	B470	0.93		1522.4	925.1	135.1	40.1	19.6	7.5	18	17	14	10
	B476	0.28		430.4	277.5	47.4	15.9	8.9	4.2	16	15	13	9
	B427	0.70		1529.6	792.9	114.9	35.4	17.9	7.5	18	17	14	10
	B521	0.42		481.5	316.8	78.0	27.6	13.6	5.9	16	15	13	10
	B471	1.05		2217.6	1000.9	142.6	52.6	30.9	16.5	18	17	14	11
	B358	0.40		634.6	343.5	37.7	6.5	2.4	0.7	16	16	12	7
	B489	0.53		3424.4	1471.1	123.6	31.4	14.0	5.5	19	18	14	10
25-Feb-14	B522	0.65		322.5	222.6	75.8	34.2	20.2	9.6	16	15	13	10
	B486	1.18		527.2	252.4	50.2	21.7	12.6	6.5	16	15	13	10
	B426	0.40		211.8	125.7	29.2	11.5	6.2	2.9	15	14	12	9
	B450	0.47		2950.5	1265.6	101.3	27.7	12.8	5.6	19	17	14	10
	B475	0.12		775.2	433.2	70.6	27.2	16.0	9.1	17	16	13	10
	B463	0.70		1269.3	772.4	105.0	39.5	22.2	11.3	17	17	14	11
	B517	0.40		250.0	158.3	43.7	18.1	10.4	4.8	15	14	13	9
	464	0.25		690.7	380.5	47.9	13.6	6.5	2.7	17	16	13	9
	B462	0.00		360.7	206.6	30.7	10.8	4.9	2.6	16	15	12	9
	B415	0.20		263.7	165.5	42.7	17.0	9.1	4.4	15	15	13	9
	B417	1.00		928.7	540.2	79.8	25.1	13.0	5.4	17	16	13	10

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	B359	0.00		194.3	90.4	13.2	4.5	2.4	1.2	15	14	11	7
	B526	0.49		1088.5	754.9	152.4	52.8	28.3	13.6	17	17	14	11
	B423	0.30		301.7	162.7	39.7	16.9	9.2	4.0	15	15	12	9
	B469	1.04		690.5	417.0	106.4	40.4	21.2	9.1	17	16	14	10
	B400	1.00		2202.1	1443.7	227.1	63.5	30.7	12.0	18	18	15	11
	B421	0.10		440.5	258.2	30.0	9.1	4.5	1.7	16	15	12	8
	B422	0.70		1150.2	649.9	135.1	50.3	26.8	13.4	17	17	14	11
	B478	0.89		376.9	220.8	41.5	14.4	7.4	3.5	16	15	13	9
	B477	0.24		608.7	317.3	42.5	12.9	6.4	2.7	16	15	13	9
	B447	0.64		2067.5	1147.4	138.2	40.6	18.7	8.0	18	17	14	10
	B449	0.34		1077.0	543.4	92.8	28.5	14.0	5.7	17	16	14	10
	B487	0.51		352.6	171.3	51.7	25.4	14.8	6.8	16	15	13	10
	B481	0.89		459.5	311.5	93.8	38.1	20.7	10.0	16	15	14	10
	B761	0.20		867.3	443.7	51.5	13.6	6.3	2.6	17	16	13	9
	B745	0.28		160.6	101.0	24.3	8.1	4.1	1.8	15	14	12	8
	B750	0.63		310.6	178.3	47.2	16.7	8.6	3.9	15	15	13	9
	B657	0.07		93.4	55.7	17.7	8.3	5.3	2.7	14	13	11	9
	B744	0.24		161.5	107.1	27.1	9.6	5.5	2.6	15	14	12	9
	B759	0.39		395.5	196.7	25.4	7.8	3.5	1.5	16	15	12	8
	B641	3.24		3464.1	2061.7	583.9	218.7	123.6	60.8	19	18	16	13
	B587	0.39		112.0	68.3	21.7	9.2	5.4	2.2	14	13	12	8
	B743	0.05		198.2	128.3	33.6	12.7	6.4	3.0	15	14	12	9
	B737	0.44		1640.9	771.5	95.7	26.2	11.3	4.6	18	17	14	9
	B637	1.28		208.3	121.5	32.2	12.4	6.5	3.2	15	14	12	9
	B659	0.96	0.6 PPM	10257.2	4866.8	346.2	86.4	39.7	15.8	21	19	16	11
	B779	0.35		647.0	379.6	94.7	34.3	17.3	7.0	17	16	14	10
	B588	0.30		866.4	541.4	98.0	33.7	17.8	8.4	17	16	14	10
	B591	0.31		80.6	61.1	16.6	5.0	2.9	1.3	14	13	11	7
	B648	0.17		647.9	274.6	28.6	8.2	4.1	2.2	17	15	12	8
	B662	0.11		594.3	291.7	42.7	12.6	6.4	2.7	16	15	13	9
	B660	1.04		2266.5	1024.5	112.6	34.0	16.9	7.7	18	17	14	10
	B755	0.29		1004.1	633.5	137.4	43.8	22.1	9.2	17	16	14	10
	B599	0.12		321.0	190.5	50.2	17.1	9.1	3.7	16	15	13	9
	B760	0.24		156.0	89.7	16.2	4.5	2.4	0.8	14	14	11	7
	B589	0.39		146.8	94.0	28.6	11.5	6.2	2.6	14	14	12	9
	B598	0.24		275.8	147.8	28.0	9.1	4.5	2.0	15	14	12	8
	B685	0.51		912.5	514.1	84.0	31.3	18.6	9.4	17	16	14	10
	B661	1.23		24556.9	4985.8	179.3	49.6	22.3	7.4	22	19	15	10
	B668	0.66		2768.3	1045.8	105.3	26.0	12.3	4.4	19	17	14	9
	B774	0.26		242.5	146.3	25.2	7.5	3.9	1.7	15	14	12	8
	B618	0.44		95.9	67.8	21.7	7.4	3.8	1.7	14	13	12	8
	B619	0.15		340.6	183.9	34.9	11.3	5.3	2.4	16	15	12	8
	B758	0.05		241.3	131.3	20.0	5.9	2.4	1.0	15	14	11	7
	B611	0.89		895.5	591.7	158.0	54.1	25.7	9.5	17	16	14	10
	B757	0.42		309.5	178.8	31.4	10.3	4.6	1.7	15	15	12	8
	B723	0.00		173.0	101.5	14.5	4.5	2.4	1.0	15	14	11	7
	B780	0.22		502.0	169.5	42.0	14.4	8.1	3.8	16	15	13	9
	B610	0.21		142.8	95.4	20.9	7.6	3.9	1.3	14	14	12	7
	B725	1.16		1050.6	698.6	181.3	66.0	33.6	13.2	17	17	15	11
	B677	0.84		270.4	189.6	64.0	29.0	18.6	11.1	15	15	13	11
	B701	0.55		305.4	212.6	39.7	12.1	4.8	1.7	15	15	12	8
	B590	0.55		265.1	181.8	55.4	20.0	10.6	4.8	15	15	13	9
	B702	0.18		160.1	90.6	16.2	6.0	2.9	1.1	15	14	11	7
	B722	0.44		145.3	81.2	14.4	3.7	1.8	0.6	14	14	11	6
	B721	0.27		305.6	165.8	18.6	3.9	1.7	0.7	15	15	11	7
	B671	0.43		280.8	175.6	36.5	12.6	6.5	3.0	15	15	12	9
	B778	0.10		268.9	164.1	31.2	9.5	5.1	2.7	15	15	12	9
	B605	0.50		202.1	127.8	42.0	20.3	12.6	6.5	15	14	13	10
	B667	0.50		566.7	344.1	55.2	16.2	8.0	3.1	16	16	13	9
	B705	0.75		452.0	207.9	35.5	15.0	8.9	4.9	16	15	12	9
	B728	0.00		355.0	207.4	56.9	22.8	13.1	6.5	16	15	13	10
	B729	0.36		431.4	201.9	42.9	16.7	8.8	4.0	16	15	13	9
	B670	0.95		558.7	388.3	68.6	18.6	8.2	3.2	16	16	13	9
	B669	3.61		3391.4	2525.6	810.2	293.9	147.1	58.9	19	19	17	13
	B703	0.63		788.6	518.3	149.6	47.0	22.1	9.2	17	16	14	10
	B700	0.38		534.0	294.6	54.0	18.2	10.9	5.1	16	15	13	10
	B699	0.28		145.1	88.3	27.7	13.3	8.2	4.4	14	14	12	9
	B724	1.36		2297.3	1332.7	303.6	125.2	71.8	33.5	18	18	15	12
	1518			1759.7	825.0	144.4	50.5	23.6	9.2	18	17	14	10
	B601	0.41		508.1	370.2	132.8	46.0	22.1	8.8	16	16	14	10

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B683	0.47		385.7	262.2	60.9	18.7	8.8	3.3	16	15	13	9
	B753	0.06		766.3	508.8	66.4	17.1	7.9	3.7	17	16	13	9
	B666	0.56		324.3	193.3	57.5	23.3	12.9	6.0	16	15	13	10
	B731	0.59		517.0	231.3	39.9	13.1	5.8	2.0	16	15	12	8
	B617	0.27		214.1	128.8	19.6	6.3	3.1	1.7	15	14	11	8
	B698	0.66		478.2	305.7	76.0	30.1	16.9	8.8	16	15	13	10
	B616	0.87		184.2	112.5	28.3	10.3	5.1	2.9	15	14	12	9
	B681	1.17		234.3	168.1	56.4	23.4	12.8	6.4	15	15	13	10
	B684	1.21		275.9	165.6	50.9	25.7	16.8	9.9	15	15	13	10
	B606	0.44		1243.5	657.9	82.3	24.8	12.4	5.0	17	17	14	9
	B636	0.24		320.2	214.5	56.4	21.2	10.3	3.9	16	15	13	9
	B604	1.29		1354.3	1056.0	376.3	133.3	64.9	25.1	18	17	16	12
	B686	0.05		251.0	170.2	52.5	20.3	10.8	4.9	15	15	13	9
	B682	0.71		278.5	177.7	57.1	23.1	12.3	5.1	15	15	13	10
	B613	0.51		298.9	156.1	27.1	8.1	4.3	1.9	15	14	12	8
	B633	1.16		1570.7	626.7	67.7	19.1	9.1	3.9	18	16	13	9
	B602	0.66		1266.9	956.5	326.1	131.8	68.5	28.3	17	17	16	12
	B603	1.26		1684.8	1240.4	443.3	169.3	85.8	36.3	18	17	16	12
26-Feb-14	B714	0.00		424.9	256.0	46.8	16.0	8.4	3.2	16	15	13	9
	B719	0.51		327.7	216.5	46.2	16.3	8.5	4.0	16	15	13	9
	B711	0.15		272.7	181.3	39.2	14.1	7.1	3.0	15	15	12	9
	B712	0.37		304.4	197.8	44.0	15.1	7.9	3.6	15	15	13	9
	B710	0.00		285.7	189.9	44.4	16.1	9.0	4.4	15	15	13	9
	B713	0.00		463.1	285.5	61.1	21.7	11.1	5.0	16	15	13	9
	B718	0.43		367.7	238.9	44.2	12.2	5.4	1.7	16	15	13	8
	B717	0.54		379.6	255.7	52.6	17.7	9.6	4.4	16	15	13	9
	B715	0.51		427.5	270.2	46.8	15.1	7.9	3.7	16	15	13	9
	B716	0.16		264.3	184.0	51.2	21.8	13.0	6.6	15	15	13	10
	B554	0.42		305.1	191.2	48.0	16.5	8.7	4.1	15	15	13	9
	B560	0.17		349.9	192.9	47.5	16.7	9.1	3.9	16	15	13	9
	B557	2.57		2069.6	1162.2	192.3	68.3	37.0	17.5	18	17	15	11
	B555	0.66		427.1	304.2	61.0	17.8	8.8	4.0	16	15	13	9
	B559	0.78		2143.0	1144.3	128.9	40.5	19.7	8.3	18	17	14	10
	B556	0.70		531.5	290.4	69.6	24.2	11.6	5.2	16	15	13	10
	B561	0.60		434.1	191.8	49.2	20.6	14.3	7.1	16	15	13	10
	B562	0.17		288.8	177.1	68.0	32.6	18.5	8.6	15	15	13	10
	B558	0.64		556.2	315.6	66.1	22.7	11.6	5.4	16	15	13	10
	B488	1.07		851.5	675.4	151.7	38.0	15.5	5.5	17	17	14	10
	B546	0.32		901.1	511.8	77.9	20.1	9.0	3.4	17	16	13	9
	B523	1.04		439.8	274.9	75.8	31.2	17.0	8.5	16	15	13	10
	B85	0.33		513.8	174.1	24.6	9.3	5.7	3.0	16	15	12	9
	B527	1.03		99.6	72.2	31.1	15.7	9.3	4.2	14	13	12	9
	B439	0.08		641.7	377.5	59.6	16.8	7.7	2.5	17	16	13	8
	B410	0.30		957.1	666.5	130.5	42.8	22.8	10.0	17	17	14	10
	B411	0.40		444.3	324.1	77.9	25.7	12.9	6.6	16	16	13	10
	B412	0.30		447.1	296.7	51.3	16.2	8.3	3.2	16	15	13	9
	B433	0.21		890.4	617.9	106.8	35.2	19.3	9.8	17	16	14	10
	B406	0.10		710.9	476.1	94.8	31.4	17.3	8.0	17	16	14	10
	B413	0.20		457.2	317.4	58.0	15.7	7.1	2.7	16	15	13	9
	B436	0.25		385.0	240.2	49.6	15.4	7.9	3.4	16	15	13	9
	B437	0.22		767.7	487.1	61.2	13.0	4.7	1.4	17	16	13	8
	B434	0.48		563.8	386.4	83.0	28.1	15.0	7.0	16	16	14	10
	B435	0.08		561.7	376.2	81.3	28.0	15.1	7.5	16	16	14	10
	B407	0.20		870.5	482.8	56.2	10.5	3.6	0.8	17	16	13	7
	B408	0.50		324.2	252.7	59.7	17.2	83.0	3.7	16	15	13	9
	B414	0.10		473.0	224.7	33.9	7.9	3.2	1.2	16	15	12	7
	B432	0.40		1034.8	725.8	106.0	29.6	14.8	6.4	17	17	14	10
	B438	0.00		505.9	320.0	63.6	21.5	11.0	4.2	16	15	13	9
	B352	1.50		4739.3	2283.1	333.5	98.4	44.9	16.7	19	18	16	11
	B424	0.30		108.4	74.4	24.0	9.5	5.6	2.6	14	13	12	9
	B409	0.30		393.5	300.6	69.1	23.5	12.6	5.9	16	15	13	10
	B351	0.50		1063.0	570.2	52.5	12.3	5.1	2.0	17	16	13	8
	B354	0.80		524.7	277.1	57.4	27.5	16.7	8.6	16	15	13	10
	B349	0.10		494.2	316.6	61.8	20.2	10.6	4.9	16	15	13	9
	B348	0.10		1155.5	528.6	73.5	28.1	14.5	7.1	17	16	13	10
	B355	0.90		478.5	247.6	61.3	23.5	12.8	5.8	16	15	13	10
	B443	0.17		488.0	295.0	63.5	25.8	14.8	7.5	16	15	13	10
	B405	0.10		623.4	557.4	102.9	28.7	13.0	5.2	16	16	14	10
	B333	0.20		1116.0	795.0	127.7	34.7	16.5	6.7	17	17	14	10
	B325	0.50		655.8	356.4	74.1	26.2	13.3	5.5	17	16	13	10

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B281	0.10		654.7	425.6	94.9	39.4	22.3	9.6	17	16	14	10
	B286	2.17		5512.3	3032.3	425.5	142.1	74.5	32.4	20	19	16	12
	B322	0.60		223.6	123.5	28.9	10.7	5.2	2.1	15	14	12	8
	B321	0.00		185.8	128.6	34.6	12.5	6.6	3.4	15	14	12	9
	B441	0.37		505.1	339.5	70.2	25.7	14.6	7.5	16	16	13	10
	B315	0.10		1266.9	906.2	172.1	54.0	25.3	9.6	17	17	15	10
	B291	2.43		5399.0	3561.8	354.2	85.4	40.7	17.5	20	19	16	11
	B312	0.60		1166.5	780.2	154.3	50.2	25.0	11.6	17	17	14	11
	B317	0.10		133.3	103.0	36.5	15.6	8.7	4.4	14	14	12	9
	B311	0.40		1559.5	1139.3	260.3	88.8	46.3	22.2	18	17	15	12
	B313	0.00		660.0	424.9	80.8	22.6	7.9	3.0	17	16	14	9
27-Feb-14	B440	0.00		583.3	322.1	57.2	19.5	10.9	5.5	16	16	13	10
	B310	0.20		997.9	730.1	217.1	82.7	43.7	20.7	17	17	15	12
	B314	0.00		1690.1	1154.6	227.1	78.8	41.9	17.1	18	17	15	11
	B282	0.20		577.0	342.6	75.6	28.1	15.2	6.1	16	16	13	10
	B283	0.65		707.8	268.6	58.4	27.8	15.6	7.8	17	15	13	10
	B284	0.56		994.5	306.2	49.9	24.1	16.2	9.0	17	15	13	10
	B285	0.85		1177.5	825.8	151.7	55.0	31.2	14.0	17	17	14	11
	B280	0.56		665.9	433.0	98.8	42.8	26.6	14.4	17	16	14	11
	B287	0.32		478.1	296.2	69.4	28.3	16.1	7.4	16	15	13	10
	B318	0.60		215.5	132.1	3.5	15.6	9.1	4.6	15	14	9	9
	B297	0.53		355.2	234.7	48.9	18.8	10.1	4.5	16	15	13	9
	B303	0.40		402.2	254.8	74.6	29.7	16.3	6.1	16	15	13	10
	B320	0.90		361.1	204.0	33.4	11.8	6.5	2.9	16	15	12	9
	B296	0.49		1356.9	704.5	92.3	36.2	20.9	10.7	18	17	14	11
	B290	1.80		7909.0	3532.5	315.1	93.3	49.2	23.7	20	19	15	12
	B696	0.29		572.4	366.6	66.2	23.1	11.7	6.0	16	16	13	10
	B691	0.30		370.3	230.6	38.4	13.6	7.5	3.3	16	15	12	9
	B694	0.38		464.5	287.3	58.2	18.8	9.5	3.8	16	15	13	9
	B233	0.36		163.8	108.3	31.9	12.7	7.4	3.3	15	14	12	9
	B223	0.28		205.0	149.0	47.2	17.3	10.0	4.8	15	14	13	9
	B218	0.25		727.5	431.6	71.0	23.7	12.6	6.3	17	16	13	10
	B217	0.45		427.5	267.2	76.0	33.4	19.7	10.4	16	15	13	11
	B224	2.45		9814.9	3806.4	361.8	80.6	33.4	10.3	20	19	16	11
	B219	0.53		518.3	345.7	97.7	43.5	26.2	13.6	16	16	14	11
	B220	0.59		756.5	454.5	126.1	48.1	25.5	12.2	17	16	14	11
	B225	4.21		3306.5	1392.8	151.6	53.8	28.3	12.2	19	18	14	11
	B221	1.34		1798.4	1297.8	384.4	133.1	67.6	27.7	18	17	16	12
	B612	11.22		45213.2	17282.5	1645.9	565.4	300.3	132.1	23	21	18	14
	B256	0.36		407.4	289.5	117.7	65.2	46.4	29.0	16	15	14	12
	B255	0.41		267.7	188.0	69.0	30.1	16.7	8.4	15	15	13	10
	B222	0.66		445.7	296.8	75.0	28.0	14.4	6.4	16	15	13	10
	B579	0.70		2165.1	598.2	53.4	17.8	10.1	5.0	18	16	13	9
	B126	0.18		389.8	215.1	64.3	26.7	14.1	6.4	16	15	13	10
	B288	0.99		5373.7	2109.1	185.2	46.7	19.9	6.1	20	18	15	10
	B216	0.39		326.5	197.6	37.5	11.8	6.0	2.2	16	15	12	8
	B194	1.47		8761.9	4103.7	227.3	50.7	21.1	9.4	20	19	15	10
	B192	0.30		229.5	132.2	26.2	9.0	4.3	2.0	15	14	12	8
	B176	0.80		1398.7	910.0	187.9	66.3	34.3	16.3	18	17	15	11
	B181	0.05		807.9	533.7	107.6	37.5	20.4	9.6	17	16	14	10
	B167	0.20		278.3	178.8	51.0	19.7	10.3	4.0	15	15	13	9
	B180	0.27		842.0	581.1	115.4	38.8	21.9	10.1	17	16	14	11
	B193	1.40		5581.7	2517.7	235.5	67.6	34.5	15.8	20	19	15	11
	B195	1.03	55 PPM	44400.2	5983.1	559.7	176.6	105.9	57.1	23	20	16	13
	B692	0.23		306.4	192.1	35.2	11.8	6.2	2.9	15	15	12	9
	B697	0.34		511.9	318.4	57.1	19.0	10.3	5.1	16	15	13	10
	B695	0.31		508.9	315.2	62.2	21.3	12.5	5.9	16	15	13	10
	B693	0.28		830.4	426.9	53.2	15.8	8.3	3.5	17	16	13	9
	B135	0.49		633.5	431.1	100.9	32.8	16.9	7.7	16	16	14	10
	B128	0.50		728.5	353.0	86.8	42.9	27.1	15.6	17	16	14	11
	B139	0.00		749.5	462.9	93.0	30.7	15.6	6.8	17	16	14	10
	B158	0.29		47.9	25.6	4.4	1.8	0.9	0.5	13	12	9	6
	B159	0.20		33.1	15.8	3.2	1.2	0.6	0.3	12	11	9	5
	B157	0.45		112.0	65.9	13.0	4.5	2.5	1.3	14	13	11	7
	B655	0.30	6.0 PPM	2867.3	1989.4	345.5	80.4	33.0	11.3	19	18	16	11
	B168	0.21		758.7	234.7	51.7	17.7	9.6	5.0	17	15	13	9
	B172	0.31		927.1	578.2	8.5	24.8	12.6	5.5	17	16	10	10
	B178	0.37		859.8	561.0	105.3	31.4	15.0	5.6	17	16	14	10
	B173	0.13		675.0	434.6	83.8	24.7	12.5	5.0	17	16	14	9
	B174	0.33		1182.1	660.9	114.9	35.5	18.2	9.1	17	17	14	10

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B175	0.12		842.9	557.8	110.1	38.0	20.0	10.0	17	16	14	10
	B177	0.32		1046.3	637.6	108.8	34.4	16.9	7.4	17	16	14	10
	B179	0.51		735.2	473.6	102.8	33.0	16.1	6.1	17	16	14	10
	B141	0.83		685.4	414.7	76.0	26.2	16.1	10.6	17	16	13	11
	B143	0.34		671.0	435.8	80.4	23.5	11.0	4.1	17	16	14	9
	B142	1.39		834.5	465.7	70.0	21.1	10.8	4.9	17	16	13	9
	B144	0.00		700.2	462.9	81.6	25.3	13.3	5.5	17	16	14	10
	B140	0.12		643.2	401.3	68.4	20.7	11.1	4.9	17	16	13	9
	B137	0.00		675.0	415.1	70.4	21.0	10.4	4.4	17	16	13	9
	B138	0.17		536.1	323.7	53.4	14.8	6.8	2.9	16	16	13	9
	B136	0.00		964.6	609.5	104.5	29.7	14.7	6.6	17	16	14	10
	B127	0.59		602.6	317.2	70.7	32.1	19.1	10.1	16	15	13	11
	B123	0.12		383.6	191.8	35.2	13.0	7.4	3.7	16	15	12	9
	B124	0.69		922.2	486.9	97.2	32.7	15.8	6.9	17	16	14	10
	B125	0.31		500.1	304.9	54.5	17.8	9.7	4.8	16	15	13	9
	B69	0.12		339.7	219.2	43.1	14.3	7.5	3.5	16	15	13	9
	7247	0.88		417.3	234.1	92.5	48.0	29.5	14.6	16	15	14	11
	B67	0.30		159.5	94.0	27.0	13.3	7.6	3.4	14	14	12	9
	1099	0.14		214.7	140.5	39.8	15.3	8.3	3.5	15	14	12	9
	963	0.40		271.0	159.2	43.9	16.4	8.6	4.0	15	14	13	9
	1517	0.52		353.2	193.3	40.7	17.4	9.8	5.3	16	15	13	10
	1580	0.32		154.8	82.3	21.0	9.3	5.6	2.9	14	14	12	9
	1164	0.83		155.0	96.0	38.4	21.1	14.2	7.8	14	14	12	10
	1521	0.72		429.3	272.2	81.3	32.4	17.2	7.4	16	15	14	10
	B658	0.00		679.1	277.0	73.7	33.8	19.2	9.0	17	15	13	10
	B660	1.04		1322.6	652.3	190.2	88.5	48.7	19.7	18	17	15	11
	B659	0.96		1313.5	495.7	79.4	33.7	18.8	8.3	18	16	13	10
	B656	0.90		3168.4	2038.6	329.1	83.5	35.3	12.6	19	18	16	11
	B646	0.27		1175.6	693.0	107.5	32.5	16.6	6.9	17	17	14	10
	B654	0.31		449.8	299.3	67.2	22.0	11.5	4.8	16	15	13	9
	1519	0.45		1938.8	502.3	48.5	19.6	11.3	5.0	18	16	13	9
	1523	0.42		545.2	235.0	64.3	29.4	16.2	7.8	16	15	13	10
	1037	0.37		208.0	115.0	30.7	13.3	7.8	4.1	15	14	12	9
	789	0.45		1204.6	436.1	95.5	44.4	26.5	13.4	17	16	14	11
	887	0.50		230.7	121.8	31.8	15.7	10.0	6.0	15	14	12	10
	B74	0.38		502.6	318.8	80.5	28.9	15.9	7.2	16	15	14	10
	B76	0.87		914.0	438.8	76.0	29.4	16.0	8.2	17	16	13	10
	B77	0.60		670.4	314.6	64.4	25.1	13.6	6.1	17	15	13	10
	B75	0.27		1239.7	596.0	115.7	43.9	23.6	11.0	17	16	14	11
	B84	0.40		814.9	314.9	46.0	15.3	7.8	3.4	17	15	13	9
	B68	0.19		80.4	46.5	13.4	6.8	4.4	2.4	14	13	11	8
	B653	0.65		741.1	511.2	116.7	42.2	22.8	9.5	17	16	14	10
	B678	0.59		998.0	539.0	79.7	23.5	12.2	5.3	17	16	13	10
	B679	0.19		582.7	351.2	57.9	19.1	10.1	4.8	16	16	13	9
	B652	0.18		969.5	572.8	101.2	27.9	11.8	3.5	17	16	14	9
28-Feb-14	B731	0.59		591.3	370.1	105.9	44.2	25.2	12.1	16	16	14	11
	1522	0.53		369.0	161.8	41.4	21.1	13.8	8.1	16	15	13	10
	1700	0.33		406.6	219.2	46.5	20.9	12.1	6.2	16	15	13	10
	1520	0.45		624.2	378.2	116.2	53.2	30.7	13.1	16	16	14	11
	1699	0.22		488.1	238.1	42.6	15.1	8.0	3.7	16	15	13	9
	888	0.32		886.9	516.4	71.7	23.8	12.6	6.4	17	16	13	10
	1701	0.39		273.0	139.3	21.7	8.5	4.7	2.7	15	14	12	9
	1100	0.18		301.4	188.5	54.2	23.8	13.1	6.4	15	15	13	10
	850	0.46		248.2	158.8	57.5	27.0	15.2	6.7	15	14	13	10
	B88	0.59		528.7	326.3	71.5	24.7	12.5	5.8	16	16	13	10
	B89	0.80		585.9	368.7	82.3	29.9	16.7	7.9	16	16	14	10
	B102	1.61		2841.8	1018.9	89.1	29.1	16.1	8.1	19	17	14	10
	B643	0.69		1384.8	855.3	159.1	55.4	29.5	13.1	18	17	14	11
	B96	0.15		90.9	53.0	19.3	10.8	6.6	3.3	14	13	11	9
	B647	0.73		813.0	528.2	121.6	42.0	23.0	9.6	17	16	14	10
	B42			409.9	304.8	101.1	41.7	22.1	9.0	16	15	14	10
	B43			668.5	504.2	122.5	47.4	25.3	11.0	17	16	14	11
	B627	0.68		833.7	483.5	121.6	46.7	23.2	10.3	17	16	14	11
	B621	0.32		959.1	488.7	109.1	41.7	23.1	11.1	17	16	14	11
	B25	0.12		374.4	204.0	58.1	24.1	14.5	7.1	16	15	13	10
	B629	0.54		1130.4	457.3	74.4	29.8	16.9	7.6	17	16	13	10
	B571	0.58		95.0	62.2	23.1	10.2	5.4	2.7	14	13	12	9
	B624	0.25		547.9	308.5	69.5	27.1	14.4	6.0	16	15	13	10
	B623	0.53		338.9	196.6	63.5	28.6	15.9	7.5	16	15	13	10
	B628	16.69		37195.1	17528.1	1812.4	576.8	295.8	130.7	22	21	18	14

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	B622	0.86		1362.3	705.2	114.9	41.4	21.8	10.2	18	17	14	11
	B626	0.45		683.4	412.2	109.9	42.2	22.5	11.1	17	16	14	11
	B625	0.68		2316.2	1251.3	166.7	58.0	31.3	14.6	18	17	15	11
	7246	0.11		339.0	168.8	55.2	31.2	22.0	13.0	16	15	13	11
	B690	0.38		585.6	371.6	62.7	22.2	11.8	5.7	16	16	13	10
	B689	0.51		396.2	223.7	37.9	12.0	6.0	2.8	16	15	12	9
	B688	0.41		662.0	377.6	62.3	20.6	11.1	4.8	17	16	13	9
	B27	0.00		859.5	477.3	107.6	39.9	21.7	10.1	17	16	14	11
	159	0.72		117.7	65.7	20.1	10.3	6.3	3.5	14	13	12	9
	239	0.39		292.3	134.5	26.1	10.5	5.5	2.0	15	14	12	8
	7562	0.37		176.0	117.2	42.7	17.2	9.1	4.2	15	14	13	9
	B49	0.46		228.3	163.6	61.2	26.2	14.3	6.9	15	15	13	10
	B48	0.15		204.4	129.1	35.9	14.8	8.6	4.0	15	14	12	9
	B24	0.00		244.8	159.0	46.2	20.2	11.8	5.9	15	14	13	10
	B28	1.26		685.7	334.1	87.4	38.5	22.1	10.0	17	16	14	10
	B26	0.00		279.3	179.2	50.3	19.7	10.3	4.2	15	15	13	9
	B23	0.48		925.5	481.1	94.5	34.9	18.0	9.3	17	16	14	10
	B505	0.53		454.7	251.1	63.0	26.9	15.1	6.7	16	15	13	10
	7248	0.76		846.4	658.3	155.7	50.5	24.1	9.2	17	17	14	10
	70	0.84		179.9	85.8	31.7	20.4	15.1	9.7	15	14	12	10
	69	0.81		261.8	179.7	58.1	26.2	15.9	8.5	15	15	13	10
	7304	0.20		198.8	132.0	46.2	22.9	14.7	7.4	15	14	13	10
	7194	0.43		142.0	83.1	28.8	15.6	10.3	6.0	14	14	12	10
	7414	0.54		106.5	71.6	24.2	12.6	8.7	4.9	14	13	12	9
	7563	0.22		288.6	167.9	41.0	17.7	10.5	4.8	15	15	13	9
	B59	0.71		171.4	117.8	36.7	12.7	6.2	3.2	15	14	12	9
	B452	0.83		229.1	157.5	42.7	14.4	7.4	3.4	15	14	13	9
	1649	0.24		685.5	456.0	83.7	27.6	14.8	6.5	17	16	14	10
	1650	0.08		247.5	166.3	64.6	30.7	19.5	10.1	15	15	13	11
	1651	0.48		722.0	423.8	88.7	33.0	18.2	9.1	17	16	14	10
	1795	0.42		921.5	606.2	97.1	26.9	11.8	4.4	17	16	14	9
20-Feb-14	B1128	1.94		291.7	117.3	10.2	3.0	1.5	0.5	15	14	11	6
	B1129	0.21		1298.1	400.9	32.7	9.2	4.7	2.5	17	16	12	8
	B1130	0.23		867.2	355.0	38.0	11.1	5.7	2.5	17	16	12	8
	B1131	0.49		2152.1	730.0	72.9	21.9	11.5	6.0	18	17	13	10
	B1132	0.41		563.7	222.8	28.2	9.3	5.1	2.5	16	15	12	8
21-Feb-14	B1140	0.19		457.7	175.9	24.1	6.5	3.1	1.7	16	15	12	8
	B1141	0.39		821.9	347.0	47.4	14.4	7.1	2.8	17	16	13	9
	B1142	0.10		522.2	202.6	20.6	5.5	2.3	0.8	16	15	12	7
	B1143	0.27		887.8	284.6	26.4	8.0	4.6	2.2	17	15	12	8
28-Feb-14	B1154	0.44		1622.8	684.0	92.6	29.9	16.0	7.4	18	17	14	10
	B1155	0.67		2492.8	877.0	63.8	15.5	6.3	2.2	18	17	13	8
3-Mar-14	B1157	1.20		3218.8	1183.0	225.2	104.5	67.3	36.9	19	17	15	12
	B1158	0.40		895.3	334.3	31.7	9.6	4.3	1.7	17	16	12	8
5-Mar-14	B1160	0.33		452.0	160.0	11.0	2.9	1.5	0.6	16	14	11	6
	B1161	1.52		5327.2	2331.5	237.6	57.7	24.4	8.5	20	18	15	10
	B1162	0.51	0.2 PPM	2463.8	864.7	81.4	20.8	9.2	3.4	18	17	14	9
	B1163	0.46	0.4 PPM	1345.8	485.3	50.7	13.7	6.4	2.4	18	16	13	8
	B1164	1.18		5619.3	2187.6	205.0	47.2	18.2	5.9	20	18	15	10
	B1165	0.58	0.4 PPM	2230.2	791.7	72.1	18.9	8.5	3.5	18	17	13	9
	B1166	0.41		1405.0	497.6	44.9	10.6	4.8	2.0	18	16	13	8
6-Mar-14	B1167	0.29		306.3	129.0	13.4	4.0	2.1	1.1	15	14	11	7
7-Mar-14	B1168	0.47		2346.6	935.2	114.5	33.1	14.6	5.3	18	17	14	10
	B1169	0.39		348.5	105.1	11.1	3.1	1.6	0.7	16	14	11	7
	B1170	0.25		299.5	106.7	12.5	3.4	1.7	0.6	15	14	11	6
	B1171	0.42		674.3	240.0	30.4	9.8	4.8	2.2	17	15	12	8
10-Mar-14	B1172	0.42		560.2	253.1	35.1	10.5	4.5	1.8	16	15	12	8
	B1173	0.11		385.8	145.3	15.0	3.5	1.6	0.4	16	14	11	6
17-Mar-14	B1192	0.42		1273.1	475.7	43.4	12.6	5.9	3.0	17	16	13	9
	B1193	0.11		976.2	362.7	41.4	12.6	5.7	2.8	17	16	13	9
	B1194	0.26		513.2	205.9	27.2	10.1	5.2	2.2	16	15	12	8
	B1195	0.34		422.5	187.0	24.3	8.3	4.4	1.8	16	15	12	8
18-Mar-14	B1197	0.53	0.3 PPM	8841.7	3341.7	253.1	74.2	36.4	16.5	20	19	15	11
	B1198	0.54		1605.5	561.3	52.4	12.6	5.5	2.1	18	16	13	8
19-Mar-14	B1199	0.34		1390.7	483.8	51.7	16.8	8.0	3.7	18	16	13	9
	B1200	0.38		334.7	186.5	29.1	8.6	4.6	1.8	16	15	12	8
	B1201	0.16		710.6	384.7	60.0	15.6	6.5	2.7	17	16	13	9
	B1202	0.24		402.7	241.1	51.7	18.4	9.1	4.1	16	15	13	9
	B1203	0.23		713.8	250.7	33.2	11.7	6.7	3.5	17	15	12	9
	B1204	0.23		1198.5	544.4	75.9	20.1	9.5	3.5	17	16	13	9

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	B1205	0.26		1130.9	327.0	31.8	12.9	9.3	5.5	17	16	12	10
20-Mar-14	B1206	0.09		494.4	127.3	6.4	1.6	0.5	0.2	16	14	10	5
	B1207	0.22		263.4	73.2	4.3	1.2	0.7	0.3	15	13	9	5
	B1208	0.21		375.5	81.3	4.0	1.3	0.7	0.5	16	14	9	6
	B1209	0.42		1173.7	230.6	11.3	3.2	1.8	0.6	17	15	11	6
21-Mar-14	B1210	0.38		988.7	305.3	18.2	4.2	2.2	0.8	17	15	11	7
	B1211	0.30		794.0	222.1	17.0	5.0	2.2	0.9	17	15	11	7
24-Mar-14	B1213	6.82		17357.1	8207.5	1582.2	627.4	333.3	132.9	21	20	18	14
	B1214	0.00	0.2 PPM	1823.9	862.5	188.1	70.4	33.9	12.9	18	17	15	11
	B1215	0.61	0.2 PPM	3395.8	1039.4	214.1	87.1	44.2	18.5	19	17	15	11
	B1216	0.51	0.4 PPM	2079.3	788.0	134.1	44.7	22.6	9.1	18	17	14	10
	B1217	2.80		1835.0	847.9	178.5	62.4	29.2	9.4	18	17	15	10
	B1218	0.85	0.4 PPM	2461.3	1000.8	165.1	50.4	21.9	7.5	18	17	15	10
	B1219	0.66	0.2 PPM	1716.9	758.2	154.6	50.7	22.0	6.9	18	17	14	10
25-Mar-14	B1220	0.67		320.1	105.6	11.4	4.0	2.4	1.1	16	14	11	7
	B1221	1.16		3626.7	1142.3	63.8	18.9	9.3	4.1	19	17	13	9
	B1222	1.30		886.0	327.0	35.7	9.9	4.8	1.9	17	16	12	8
	B1223	0.41		765.6	222.2	26.6	9.8	5.4	2.8	17	15	12	9
	B1224	0.57		658.2	287.9	43.2	14.3	7.1	3.0	17	15	13	9
27-Mar-14	B1229	0.10		208.6	89.0	9.8	3.0	1.5	0.8	15	14	10	7
	B1230	0.82		395.2	192.1	28.2	8.2	4.2	1.8	16	15	12	8
28-Mar-14	B1231	0.79		1324.6	642.2	106.8	37.4	20.2	8.6	18	17	14	10
	B1232	0.36		1026.0	411.6	60.5	20.4	10.3	4.8	17	16	13	9
	B1233	0.98		1847.5	561.9	53.0	15.9	7.0	3.0	18	16	13	9
	B1234	0.56		1656.9	726.1	99.3	30.5	14.7	5.7	18	17	14	10
1-Apr-14	B1235	0.25		358.1	142.6	20.0	7.3	4.3	2.0	16	14	11	8
	B1236	0.40		369.5	143.8	24.8	8.8	4.8	2.2	16	14	12	8
	B1238	0.47		977.9	398.8	46.9	12.9	6.1	2.1	17	16	13	8
	B1239	0.25		684.9	266.6	37.2	11.7	6.2	2.7	17	15	12	9
	B1240	0.28		273.8	104.3	6.5	1.8	0.9	0.4	15	14	10	6
	B1242	0.26		494.6	191.3	17.3	4.2	1.7	0.6	16	15	11	6
	B1243	1.31		3690.3	604.4	25.3	6.4	2.7	0.8	19	16	12	7
7-Apr-14	B1265	0.29		150.2	52.0	7.7	2.7	1.6	0.7	14	13	10	7
	B1266	0.22		162.0	68.8	8.8	2.5	1.0	0.4	15	13	10	6
	B1267	0.14		134.9	59.0	10.6	4.0	2.2	0.9	14	13	11	7
	B1268	0.13		128.4	56.2	8.2	2.8	1.4	0.6	14	13	10	6
	B1269	0.24		125.8	38.4	5.0	2.0	1.0	0.5	14	12	9	6
	B1270	0.24		126.5	41.5	5.6	2.4	1.2	0.6	14	13	10	6
	B1271	0.22		205.6	62.4	7.5	2.5	1.3	0.3	15	13	10	5
	B1272	0.23		263.4	80.7	10.3	4.0	2.2	1.0	15	14	11	7
	B1273	0.19		169.1	64.2	10.5	3.9	1.8	0.8	15	13	11	7
	B1274	0.23		107.4	37.9	5.3	1.6	0.8	0.4	14	12	10	6
	B1275	0.18		842.9	432.5	65.2	15.8	6.9	2.3	17	16	13	8
	B1276	0.16		198.9	59.4	4.0	0.7	0.4	0.2	15	13	9	5
	B1277	0.32		1259.8	357.8	26.3	7.6	3.8	1.2	17	16	12	7
	B1278	0.38		834.4	183.1	10.1	2.5	1.2	0.6	17	15	11	6
	B1279	0.45		360.0	97.4	6.0	1.6	0.7	0.4	16	14	10	6
	B1280	0.18		969.0	246.8	12.0	3.0	1.1	0.3	17	15	11	5
	B1281	0.59		1980.8	472.4	27.8	6.9	3.0	1.1	18	16	12	7
	B1282	0.27		602.6	189.4	13.6	3.8	1.8	0.6	16	15	11	6
	B1283	0.41		730.5	253.1	20.9	4.9	2.1	1.0	17	15	12	7
	B1284	0.51		2204.1	798.5	137.5	43.9	20.3	7.5	18	17	14	10
	B1285	0.71		2136.1	965.4	238.1	91.8	46.5	17.2	18	17	15	11
	B1286	0.56		1431.6	611.4	118.9	38.7	18.8	6.6	18	16	14	10
	B1287	0.55		1580.8	775.4	169.0	58.8	28.2	10.1	18	17	15	11
	B1288	0.68		2111.5	750.2	111.6	43.8	23.2	10.1	18	17	14	11
	B1289	0.51		1065.2	521.5	104.8	25.7	10.0	3.3	17	16	14	9
	B1290	0.60		1131.4	511.7	105.0	35.9	15.7	5.8	17	16	14	10
	B1291	0.49		1329.5	651.0	137.6	48.7	23.0	8.3	18	17	14	10
	B1292	0.57		899.4	425.2	93.6	35.2	17.1	6.3	17	16	14	10
8-Apr-14	B1297	0.41		950.7	345.6	32.1	9.3	4.4	1.8	17	16	12	8
	B1298	0.21		541.6	160.7	12.5	3.4	1.4	0.6	16	15	11	6
9-Apr-14	B1299	0.19		269.7	82.4	8.0	2.0	0.9	0.3	15	14	10	5
	B1300	0.19		314.7	84.1	4.6	1.2	0.6	0.3	15	14	9	5
	B1301	0.17		410.0	100.6	5.9	1.2	0.7	0.2	16	14	10	5
	B1302	0.00		190.2	71.0	8.8	2.7	1.6	0.8	15	13	10	7
	B1303	0.10		258.1	106.3	15.6	5.2	2.6	1.3	15	14	11	7
	B1304	0.14		367.8	126.5	12.3	5.0	3.0	1.5	16	14	11	8
	B1305	0.64		329.7	120.9	11.0	3.8	2.0	0.9	16	14	11	7
	B1306	0.63		1159.4	451.4	62.1	19.1	9.1	4.0	17	16	13	9

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	B1307	0.13		568.2	219.9	26.5	7.3	3.5	1.7	16	15	12	8
11-Apr-14	B1311	0.55		2163.3	804.7	88.5	25.6	12.3	5.1	18	17	14	10
14-Apr-14	B1312	1.17		4589.8	1065.8	112.2	35.2	17.0	6.0	19	17	14	10
16-Apr-14	B1313	0.63		1437.3	564.2	52.7	12.3	4.9	1.7	18	16	13	8
	B1314	0.56	0.4 PPM	4689.3	1327.5	61.7	10.0	3.3	0.8	19	18	13	7
	B1315	2.41		37613.2	8137.1	336.7	90.3	41.0	15.8	22	20	16	11
17-Apr-14	B1316	0.51		444.4	190.4	28.3	8.8	3.8	1.5	16	15	12	8
	B1317	0.41		889.0	278.6	21.2	5.7	2.7	1.1	17	15	12	7
22-Apr-14	B1321	0.09		111.0	30.7	2.8	1.1	0.6	0.2	14	12	9	5
	B1322	0.48		1223.4	508.4	58.2	17.5	8.7	3.9	17	16	13	9
	B1323	0.45	0.4 PPM	3263.5	1063.1	68.0	16.0	6.8	2.7	19	17	13	9
23-Apr-14	B1324	0.25		587.6	197.9	17.7	5.3	2.7	1.3	16	15	11	7
	B1325	0.17		781.2	202.5	20.5	7.9	4.2	2.0	17	15	12	8
24-Apr-14	B1327	0.21		633.1	249.6	53.2	23.6	12.6	5.2	16	15	13	10
	B1328	0.37		391.4	142.8	18.3	6.9	3.9	1.7	16	14	11	8
25-Apr-14	B1329	0.37		1751.6	704.2	67.4	17.7	7.5	3.1	18	17	13	9
	B1330	1.19		7197.2	2343.8	167.5	52.1	28.2	13.5	20	18	15	11
	B1331	1.10		18110.4	5454.7	267.3	65.9	30.2	12.4	21	20	15	11
	B1332	1.70		35959.7	10437.4	326.7	66.7	28.9	12.3	22	21	16	11
28-Apr-14	B1333	0.54		1228.7	458.7	43.5	11.6	4.5	1.5	17	16	13	8
	B1334	0.30		1192.3	547.4	72.5	19.0	8.5	2.9	17	16	13	9
	B1335	0.30		431.2	191.6	21.7	6.1	2.7	1.1	16	15	12	7
	B1336	0.07		142.6	53.0	4.4	1.3	0.7	0.2	14	13	9	5
	B1337	0.34		1095.0	448.7	60.5	16.6	8.2	3.2	17	16	13	9
	B1338	8.29		29585.1	7855.2	475.5	118.3	56.5	23.1	22	20	16	12
	B1339	0.24		228.1	89.2	18.0	7.8	4.2	1.8	15	14	11	8
	B1340	0.31		523.2	239.3	40.4	10.3	4.0	1.5	16	15	13	8
29-Apr-14	B1341	0.61		3048.6	1225.8	140.1	44.3	22.0	8.8	19	17	14	10
	B1342	0.29		875.0	217.8	14.3	3.6	1.2	0.4	17	15	11	6
	B1343	4.37		23492.1	9445.3	909.4	239.7	102.4	31.1	22	20	17	12
30-Apr-14	B1344	0.42		140.5	42.9	2.5	0.5	0.3	0.1	14	13	8	4
	B1345	4.28		3146.1	1570.8	703.4	517.4	416.7	305.8	19	18	17	15
1-May-14	B1346	0.38		358.8	139.6	14.0	4.5	2.4	1.2	16	14	11	7
2-May-14	B1347	0.45		481.1	161.5	19.7	6.6	3.4	1.5	16	15	11	8
	B1348	0.39		699.1	269.3	35.2	11.6	5.4	2.1	17	15	12	8
5-May-14	B1349	0.39		255.3	85.6	9.8	3.5	1.7	0.5	15	14	10	6
	B1350	0.48		485.3	206.8	30.1	9.3	4.6	1.3	16	15	12	7
	B1351	0.34		322.4	98.8	9.2	3.5	1.6	0.9	16	14	10	7
	B1352	0.85	0.2 PPM	2901.9	860.8	62.1	16.1	7.9	3.0	19	17	13	9
	B1353	0.27		617.3	221.8	22.1	6.4	2.7	1.1	16	15	12	7
7-May-14	B1355	0.51		1223.3	421.4	55.7	19.1	9.7	4.1	17	16	13	9
	B1356	0.63		1607.1	544.2	80.8	31.0	18.0	8.2	18	16	14	10
	B1357	0.60		956.8	385.8	81.6	33.7	19.0	9.0	17	16	14	10
	B1358	0.33		780.9	253.4	23.3	8.5	4.9	2.4	17	15	12	8
	B1359	0.37		533.7	211.2	28.0	9.4	5.1	2.1	16	15	12	8
	B1360	0.11		609.4	227.0	22.9	5.6	2.9	1.2	16	15	12	7
	B1361	0.25		444.2	162.3	18.2	6.4	3.5	1.6	16	15	11	8
8-May-14	B1376	0.35		721.3	370.1	61.7	18.7	8.5	3.2	17	16	13	9
	B1377	0.58		1239.2	368.6	36.1	13.3	7.5	3.2	17	16	12	9
12-May-14	B1379	0.53		735.3	351.6	60.1	20.3	12.1	6.1	17	16	13	10
	B1380	0.37		288.7	101.9	13.8	4.7	2.2	1.0	15	14	11	7
	B1381	0.34		332.4	142.0	12.1	2.5	1.2	0.5	16	14	11	6
	B1382	0.25		183.5	78.1	8.6	3.0	1.7	0.6	15	13	10	6
	B1383	0.57		1116.8	489.7	49.7	14.0	6.5	2.5	17	16	13	8
	B1384	0.29		876.0	477.7	76.7	19.5	7.5	2.0	17	16	13	8
13-May-14	B1385	0.64		2349.7	694.4	52.0	13.0	5.8	2.0	18	17	13	8
	B1386	1.66		6225.1	2136.6	258.6	82.7	41.2	18.4	20	18	15	11
	B1387	0.64		241.3	147.6	37.1	16.6	9.6	5.4	15	14	12	10
14-May-14	B1394	0.24		929.2	328.0	33.7	11.6	5.5	2.5	17	16	12	8
	B1395	0.54		360.7	104.0	7.4	2.0	1.1	0.7	16	14	10	7
15-May-14	B1396	0.43		704.0	176.7	7.2	1.9	1.0	0.4	17	15	10	6
	B1397	0.38		1746.9	514.6	36.0	9.3	4.1	1.1	18	16	12	7
20-May-14	B1399	0.19		749.8	272.6	20.8	6.2	3.0	1.1	17	15	12	7
	B1400	0.32		430.2	148.1	20.6	5.7	2.4	0.9	16	14	12	7
	B1401	0.12		254.3	84.3	11.6	4.1	1.8	0.8	15	14	11	7
	B1402	0.13		136.1	65.1	13.0	4.5	2.2	0.8	14	13	11	7
21-May-14	B1404	0.09		523.5	217.6	26.0	8.6	3.4	1.7	16	15	12	8
	B1405	0.46		710.4	295.4	38.0	12.4	6.1	2.4	17	15	12	8
22-May-14	B1406	0.18		1105.8	330.3	31.9	9.8	5.0	2.1	17	16	12	8
	B1407	0.26		1208.4	486.2	84.1	29.7	15.1	6.6	17	16	14	10

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
27-May-14	B1408	0.14		374.4	184.0	18.5	4.8	1.9	0.5	16	15	11	6
	B1409	0.48		142.8	46.8	5.6	2.1	1.2	0.5	14	13	10	6
	B1410	0.17		264.0	129.6	13.6	3.4	1.7	0.8	15	14	11	7
	B1411	0.15		137.1	58.3	10.6	3.7	1.9	0.9	14	13	11	7
28-May-14	B1412	0.69		223.6	77.2	8.3	2.0	1.1	0.5	15	13	10	6
	B1413	0.55		1203.6	482.2	37.4	9.3	5.0	2.3	17	16	12	8
29-May-14	B1415	0.16		1000.8	182.6	9.1	2.8	1.4	0.7	17	15	10	7
30-May-14	B1416	0.70		2072.6	637.2	56.7	15.6	7.0	2.8	18	16	13	9
2-Jun-14	B1417	0.32		330.2	133.4	19.4	7.5	3.4	1.7	16	14	11	8
3-Jun-14	B1418	0.36		545.5	152.5	11.6	3.0	1.3	0.6	16	14	11	6
	B1419	0.39		354.5	94.4	5.5	1.5	0.8	0.4	16	14	10	6
	B1420	1.97		5685.7	1320.2	99.8	35.5	19.4	8.6	20	18	14	10
4-Jun-14	B1421	1.01		2839.9	1197.5	146.5	49.2	26.5	10.1	19	17	14	11
	B1422	0.78	0.2 PPM	3631.8	1510.6	133.6	27.1	10.0	3.2	19	18	14	9
	B1423	1.05		4875.1	2006.5	202.6	55.2	27.1	10.4	19	18	15	11
	B1424	0.64	0.2 PPM	2325.1	1098.7	161.8	51.7	25.8	11.2	18	17	15	11
	B1425	0.62	0.2 PPM	2934.4	1212.7	145.4	39.7	18.7	7.6	19	17	14	10
	B1426	0.29		545.6	130.0	7.6	2.0	1.0	0.3	16	14	10	5
	B1427	0.45		2166.2	708.9	65.5	16.3	6.9	2.5	18	17	13	8
	B1428	0.28		566.7	196.9	22.4	6.0	3.0	1.1	16	15	12	7
	B1429	0.37		1426.5	328.2	17.1	4.1	1.9	0.7	18	16	11	7
	B1430	0.34		1554.5	495.5	29.1	7.2	3.1	1.3	18	16	12	7
5-Jun-14	B1431	0.29		342.8	111.2	9.7	2.6	1.2	0.5	16	14	10	6
	B1432	0.36		170.7	53.4	5.5	1.9	1.2	0.5	15	13	10	6
6-Jun-14	B1434	0.22		849.3	298.0	25.9	6.1	3.0	1.5	17	15	12	8
9-Jun-14	B1438	0.26		273.8	152.8	34.3	9.0	3.7	1.3	15	14	12	7
11-Jun-14	B1439	0.33		533.5	216.0	25.3	8.2	4.5	2.1	16	15	12	8
	B1440	0.65		960.0	445.2	49.7	12.5	6.1	2.4	17	16	13	8
	B1441	0.50		702.5	283.7	45.2	16.4	8.1	3.3	17	15	13	9
	B1442	0.48		378.6	143.1	11.8	3.6	1.7	0.8	16	14	11	7
	B1443	0.27		130.1	43.4	3.5	1.1	0.4	0.2	14	13	9	5
12-Jun-14	B1444	0.47		884.6	308.0	31.2	10.3	5.9	2.5	17	15	12	8
13-Jun-14	B1445	0.94		1553.0	604.2	67.4	18.7	7.9	3.0	18	16	13	9
	B1446	0.33		282.6	91.5	6.8	2.4	0.9	0.4	15	14	10	6
	B1447	0.61		1046.2	565.2	111.5	35.9	18.2	7.4	17	16	14	10
16-Jun-14	B1448	0.19		754.1	320.0	34.9	10.8	5.2	1.9	17	15	12	8
	B1449	0.26		758.2	314.1	34.4	9.9	4.3	1.7	17	15	12	8
	B1450	0.73		2044.8	741.7	90.8	29.2	14.8	6.4	18	17	14	10
	B1451	0.42		525.5	247.3	53.2	21.3	11.6	5.6	16	15	13	10
	B1452	0.18		895.8	241.9	20.6	5.6	2.7	1.1	17	15	12	7
19-Jun-14	B1454	0.29		470.6	226.6	37.1	11.6	5.5	2.3	16	15	12	8
	B1455	0.23		512.5	231.2	31.7	9.0	3.9	1.3	16	15	12	7
	B1456	0.35		769.7	306.6	32.8	10.3	5.0	2.2	17	15	12	8
	B1457	0.14		1543.1	572.2	49.7	13.0	5.5	1.6	18	16	13	8
	B1458	0.59		1249.5	476.8	47.9	14.0	6.7	3.0	17	16	13	9
	B1459	7.42		9961.9	3441.9	625.4	249.0	138.1	64.2	20	19	16	13
	B1460	1.18		49741.8	7562.5	328.2	65.0	27.5	9.9	23	20	16	10
	B1461	0.35		1285.4	575.4	78.9	22.3	10.8	4.3	17	16	13	9
	B1462	0.37		519.7	206.8	20.6	6.1	2.8	1.3	16	15	12	7
20-Jun-14	B1463	0.21		218.4	92.5	8.9	2.0	1.0	0.5	15	14	10	6
23-Jun-14	B1465	0.61		3055.4	890.4	58.7	14.8	6.5	2.5	19	17	13	8
	B1466	0.02		653.8	230.7	26.3	9.0	4.9	2.3	17	15	12	8
	B1467	0.39		38.2	12.7	1.6	0.2	0.1	0.0	12	11	8	0
	B1468	0.51		12.5	4.3	0.7	0.2	0.2	0.1	11	9	7	4
	B1469	1.20		10936.8	3164.0	186.7	47.4	22.9	9.3	21	19	15	10
24-Jun-14	B1470	1.89		5310.4	1884.0	164.6	47.8	23.9	11.0	20	18	15	11
	B4171	0.45		1483.7	566.4	56.6	15.0	8.0	3.0	18	16	13	9
	B1472			300.4	146.0	20.1	5.5	2.6	1.0	15	14	12	7
25-Jun-14	B584	0.39		175.8	81.4	15.9	5.0	2.2	0.9	15	14	11	7
	B473	0.39		324.5	135.9	24.7	9.2	4.9	2.2	16	14	12	8
	784	1.85		761.9	292.6	57.9	26.6	16.7	8.2	17	15	13	10
	783	0.31		125.5	61.5	18.0	8.6	5.2	2.7	14	13	11	9
	731	1.24		1135.0	876.6	224.8	66.0	29.7	11.3	17	17	15	11
	782	1.44		565.5	339.9	112.4	43.2	23.2	9.7	16	16	14	10
	788	0.82		553.6	236.7	56.0	22.8	13.0	6.5	16	15	13	10
	B504	0.60		192.3	122.6	37.6	13.5	6.5	2.4	15	14	12	8
	B513	0.22		164.0	94.5	28.7	11.3	6.1	2.7	15	14	12	9
	1127	1.56		1778.1	1131.6	198.0	54.9	25.5	8.1	18	17	15	10
	B1473	0.30		1830.2	517.8	32.9	9.7	4.2	2.0	18	16	12	8
	B1474	0.41		425.8	158.5	18.8	6.4	3.9	1.8	16	14	11	8

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
1-Jul-14	B1479	0.29		1010.5	377.7	29.4	7.4	3.1	1.0	17	16	12	7
	B1480	0.14		871.4	393.3	43.4	13.6	6.8	2.9	17	16	13	9
	B1481	0.36		1020.2	435.7	55.3	16.7	8.4	4.0	17	16	13	9
	B1482	0.19		350.5	144.5	16.5	4.6	2.5	1.1	16	14	11	7
	B1483	0.32		1107.9	326.2	24.8	6.1	2.8	1.2	17	16	12	7
	B1484	0.36		1160.1	356.8	37.7	12.1	6.3	2.5	17	16	12	8
	B1485	0.44		431.8	184.8	22.4	6.7	3.9	1.5	16	15	12	8
	B1486	0.04		384.7	164.7	17.2	4.8	2.2	1.0	16	15	11	7
	B1487	0.48		1319.1	522.2	55.0	14.5	6.3	2.5	18	16	13	8
	B1488	0.22		512.0	211.5	22.1	5.7	2.6	0.9	16	15	12	7
	B1489	0.50		802.4	284.8	32.5	9.9	4.6	1.9	17	15	12	8
	B1492	1.63		5024.7	2104.1	441.7	105.4	37.5	8.9	20	18	16	10
	B1493	0.21		969.7	308.9	13.8	2.5	1.1	0.3	17	15	11	5
	B1494	0.25		735.5	222.3	15.1	3.7	1.8	0.6	17	15	11	6
	B1496	0.43		632.9	302.8	52.0	16.6	8.6	3.5	16	15	13	9
8-Jul-14	B1515	0.25		792.5	319.0	33.0	8.1	3.6	1.2	17	15	12	7
9-Jul-14	B1516	0.36		2373.6	753.1	64.0	21.2	12.1	5.5	18	17	13	10
10-Jul-14	B1517	0.24		1953.0	784.2	75.3	22.5	10.6	4.5	18	17	13	9
	B1518	0.00	0.2 PPM	4889.1	2316.8	439.5	167.8	103.9	61.0	19	18	16	13
	B1519	0.00		1778.6	713.5	74.8	23.3	10.7	4.3	18	17	13	9
	B1520	0.00		1318.6	655.2	85.7	25.2	11.3	3.8	18	17	14	9
	B1521	1.28		4348.7	1983.5	242.2	61.4	26.6	9.6	19	18	15	10
	B1522	0.00		602.9	264.8	45.0	16.2	8.5	3.7	16	15	13	9
	B1523	1.82		780.8	220.1	31.1	7.7	3.2	0.9	17	15	12	7
	B1524	0.58		1773.4	214.6	13.6	4.1	1.9	1.0	18	15	11	7
	B1525	0.03		625.6	96.9	5.2	1.2	0.6	0.3	16	14	10	5
	B1526	1.16		410.7	203.4	27.1	7.7	3.3	1.2	16	15	12	7
	B1527	0.58		1888.6	812.4	99.9	32.4	15.5	6.3	18	17	14	10
	B1528	0.00		401.3	198.2	27.7	8.3	4.1	1.9	16	15	12	8
11-Jul-14	B1530	0.25		305.1	148.9	26.6	10.2	5.5	2.2	15	14	12	8
14-Jul-14	B1531	0.37		118.6	35.7	4.3	1.2	0.4	0.1	14	12	9	4
	B1532	0.21		125.1	40.9	3.5	0.8	0.4	0.2	14	13	9	5
	B1533	0.37		135.8	46.2	4.4	1.5	0.9	0.3	14	13	9	5
	B1534	0.56		1799.9	678.4	62.6	13.3	5.1	1.7	18	17	13	8
	B1535	0.32		665.4	237.0	19.8	6.2	3.2	1.4	17	15	11	8
	B1536	0.49		1037.1	370.0	23.3	4.0	1.3	0.6	17	16	12	6
	B1537	0.38		508.3	178.8	17.2	6.5	3.3	1.5	16	15	11	8
	B1538	0.28		214.1	76.3	7.9	2.1	1.2	0.7	15	13	10	7
	B1539	0.24		1029.4	300.9	24.8	7.4	3.5	1.8	17	15	12	8
16-Jul-14	B1544	0.53		1588.9	765.5	133.8	53.0	29.4	13.4	18	17	14	11
	B1545	0.46		1110.3	496.0	78.9	32.3	17.7	8.6	17	16	13	10
	B1546	28.26		92520.2	81285.8	40088.0	19779.9	12203.7	6733.4	24	24	23	20
21-Jul-14	B1547	0.08		1276.9	345.7	30.7	8.7	3.7	1.6	17	16	12	8
	B1550	0.48		2090.5	817.7	84.2	26.3	13.0	6.5	18	17	14	10
22-Jul-14	B1551	0.23		658.3	290.3	31.0	8.6	4.1	1.7	17	15	12	8
23-Jul-14	B1552	1.16	0.2 PPM	8379.5	2947.5	261.2	68.3	32.0	12.6	20	19	15	11
	B1553	0.57		2408.8	913.4	71.5	17.7	7.3	2.3	18	17	13	8
	B1554	0.70		1274.4	505.1	56.3	18.5	10.8	5.1	17	16	13	10
24-Jul-14	B1555	0.00		1185.0	358.5	38.5	12.4	6.1	2.7	17	16	12	9
	B1556	0.17		334.6	156.8	22.2	8.1	4.0	1.9	16	14	12	8
	B1557	0.21		1016.6	283.2	26.1	8.3	4.8	2.2	17	15	12	8
	B1558	0.22		1464.5	498.5	41.7	13.1	5.7	2.3	18	16	13	8
	B503	0.59		94.3	44.9	10.7	4.9	2.7	1.4	14	13	11	8
	B536	0.44		142.0	75.3	18.7	7.6	4.2	1.6	14	13	11	8
	919	0.29		339.0	204.6	47.0	16.7	9.1	4.5	16	15	13	9
	66	0.74		620.5	338.2	104.3	51.6	31.6	15.3	16	16	14	11
	67	0.36		350.8	152.5	43.8	19.1	10.2	3.7	16	14	13	9
	68	0.27		395.8	242.3	73.4	27.7	13.5	5.8	16	15	13	10
	71	0.69		395.3	181.5	45.1	23.4	15.8	9.2	16	15	13	10
	485	0.43		153.1	95.7	23.8	7.0	3.0	1.0	14	14	12	7
	527	1.03		160.9	85.8	20.2	9.5	5.0	2.5	15	14	12	8
	529	0.53		98.6	42.0	8.3	3.6	2.0	1.0	14	13	10	7
	541	0.40		170.6	73.5	9.6	3.1	1.3	0.5	15	13	10	6
	565	0.08		963.8	643.6	85.4	21.2	9.6	3.2	17	17	14	9
	323	0.30		125.3	93.1	32.6	13.5	7.8	3.7	14	14	12	9
	324	0.50		160.5	105.0	33.5	12.8	7.1	2.7	15	14	12	9
	325	0.50		94.8	70.9	28.9	11.3	6.0	2.2	14	13	12	8
	326	0.20		126.3	79.4	23.5	9.5	5.1	2.8	14	13	12	9
	477	0.38		361.7	241.6	45.3	13.1	5.6	2.1	16	15	13	8
	481	0.19		224.3	120.2	28.3	9.6	5.4	2.1	15	14	12	8

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	482	0.34		317.8	180.1	37.0	11.1	5.2	2.3	15	15	12	8
	486	0.47		307.0	208.3	39.6	11.1	5.3	2.0	15	15	12	8
	319	0.75		129.3	84.3	27.1	10.6	6.0	3.1	14	14	12	9
	421	0.10		372.7	150.9	19.5	7.4	4.0	1.9	16	14	11	8
	478	0.89		323.4	126.2	27.4	10.2	5.3	2.5	16	14	12	8
	479	0.42		289.2	161.0	27.2	7.7	3.9	1.3	15	15	12	7
	480	0.88		199.6	125.6	27.5	7.9	3.8	1.6	15	14	12	8
	483	0.46		345.8	167.0	27.3	7.5	3.7	1.2	16	15	12	7
	484	1.12		297.7	141.2	25.6	8.0	3.8	2.0	15	14	12	8
	528	0.52		217.8	116.0	34.7	14.8	8.3	4.0	15	14	12	9
	539	0.00		1825.0	1034.7	128.0	31.1	12.7	4.3	18	17	14	9
28-Jul-14	B1560	0.23	18.2 ppm	66923.2	18130.3	594.5	67.8	30.3	14.2	23	21	16	11
	B1561	0.20		197.1	93.0	14.3	4.4	1.7	0.6	15	14	11	6
	321	0.57		208.2	154.1	51.3	22.1	12.6	6.4	15	14	13	10
	322	0.44		128.4	89.3	30.4	13.6	8.0	4.5	14	14	12	9
	327	0.81		412.1	316.7	104.3	44.7	26.1	12.6	16	15	14	11
	328	0.45		390.7	293.0	82.6	32.6	18.9	9.6	16	15	14	10
	329	0.45		158.0	105.0	30.7	11.1	6.3	2.9	14	14	12	9
	661	1.23		242.8	186.2	76.8	32.7	20.3	11.3	15	15	13	11
29-Jul-14	B1563	3.58		9352.8	4772.2	625.3	210.1	111.6	52.1	20	19	16	13
	B1564	0.00		468.5	213.3	32.9	8.5	4.0	1.5	16	15	12	8
	B1565	0.11		68.0	26.2	2.4	0.7	0.5	0.3	13	12	8	5
	B1566	0.03		164.6	63.2	5.4	1.5	0.8	0.4	15	13	10	6
30-Jul-14	B1567	0.61		452.3	141.6	10.1	3.4	1.7	0.8	16	14	11	7
	B1568	0.20		930.1	277.0	13.1	2.5	1.1	0.5	17	15	11	6
	B1569	0.30		458.8	168.1	28.6	9.9	5.0	2.1	16	15	12	8
31-Jul-14	B1518	1.07		2120.1	1376.5	435.0	197.5	121.8	63.6	18	18	16	13
4-Aug-14	B1570	0.34		829.9	369.2	78.8	26.1	13.3	5.4	17	16	13	10
	B1571	0.24		264.8	110.8	16.1	5.8	3.2	1.7	15	14	11	8
	B1572	0.31		416.2	116.4	5.4	1.7	1.1	0.6	16	14	10	6
	B1573	0.20		291.6	107.5	12.4	3.9	2.0	0.8	15	14	11	7
	B1574	0.31		316.8	122.2	14.0	4.4	2.0	0.7	15	14	11	7
	B1575	0.24		100.3	33.9	3.1	0.8	0.4	0.2	14	12	9	5
	B1576	0.49		933.0	187.5	18.0	7.1	3.8	2.0	17	15	11	8
	B1577	0.00		2511.2	1080.3	155.5	41.6	17.9	6.0	19	17	14	10
	B1578	0.40	0.2 PPM	1548.0	791.0	177.5	60.7	30.7	11.5	18	17	15	11
	B1579	1.21		1558.7	775.9	168.9	56.7	25.5	9.8	18	17	15	10
	B1580	0.43		2295.5	986.6	146.1	44.5	20.2	7.4	18	17	14	10
	B1581	1.09		1934.5	888.0	185.1	65.4	32.2	13.1	18	17	15	11
	B1582	0.84	0.2 PPM	1753.6	857.0	173.1	53.6	24.7	9.3	18	17	15	10
	B1583	2.07		1527.9	659.8	123.3	41.3	19.2	7.2	18	17	14	10
	B1584	1.51		1850.0	487.1	64.6	23.1	12.0	4.5	18	16	13	9
	B1585	3.24		1171.1	386.9	108.0	36.8	16.8	5.8	17	16	14	10
5-Aug-14	B1587	0.74		988.7	165.1	12.7	4.6	2.5	1.2	17	15	11	7
	B1588	0.13		366.1	156.8	19.0	6.6	3.5	1.7	16	14	11	8
7-Aug-14	B1589	0.18	6.0 PPM	10326.8	2685.4	78.3	13.8	6.9	3.0	21	19	13	9
	B1590	0.65		898.5	519.3	107.9	31.8	14.0	5.5	17	16	14	10
8-Aug-14	B1591	1.39		3679.0	1091.2	157.6	42.1	17.7	4.9	19	17	14	9
	B1592	0.39		835.5	342.2	38.0	12.3	6.5	3.5	17	16	12	9
	B1593	0.49		915.5	377.7	47.2	15.9	8.7	3.8	17	16	13	9
14-Aug-14	B1594	0.32		236.8	130.6	21.4	6.5	2.9	1.1	15	14	12	7
18-Aug-14	B1595	0.20		997.7	485.8	84.3	29.8	15.8	6.5	17	16	14	10
	B1596	0.53		837.2	296.7	63.8	28.9	18.0	10.9	17	15	13	11
	B1597	0.48		2081.8	926.8	118.5	37.6	17.7	7.5	18	17	14	10
19-Aug-14	B1598	0.42		1095.3	489.7	77.5	26.2	14.1	6.3	17	16	13	10
	B1599	0.31		944.8	388.7	52.0	17.0	9.1	4.2	17	16	13	9
	B1600	0.28		1257.7	575.6	102.5	38.5	20.3	8.9	17	16	14	10
	B1601	0.24		1076.3	470.8	72.1	23.7	12.3	5.1	17	16	13	10
	B1602	0.06		325.1	154.2	23.2	8.6	4.6	2.6	16	14	12	9
20-Aug-14	B1603	0.51		663.5	279.4	31.7	10.1	5.0	1.3	17	15	12	7
	B1604	0.12		262.8	95.0	9.7	3.4	2.5	1.8	15	14	10	8
	B1605	0.43		2428.4	740.5	29.2	7.0	3.2	1.6	18	17	12	8
	B1606	0.24		289.5	107.6	7.7	2.0	1.0	0.4	15	14	10	6
	B1607	0.22		940.5	304.8	14.1	2.5	1.3	0.5	17	15	11	6
21-Aug-14	B1608	0.46	10.2 PPM	4725.0	1110.2	73.5	17.4	9.0	4.0	19	17	13	9
	B1609	0.53		806.3	327.0	54.8	20.5	11.2	5.1	17	16	13	10
22-Aug-14	B1610	0.32		324.8	83.5	5.4	1.7	1.1	0.4	16	14	10	6
	B1611	0.42		692.0	152.8	6.3	2.0	1.0	0.5	17	14	10	6
	B1612	0.34		1038.9	268.0	27.3	8.3	3.5	1.2	17	15	12	7
	B1613	0.17		1259.4	406.9	7.5	1.2	0.4	0.2	17	16	10	5

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	B1614	0.06		283.5	86.4	8.2	2.7	1.3	0.4	15	14	10	6
29-Aug-14	B1617	0.35	0.4 PPM	2151.3	825.6	125.0	45.2	23.6	10.1	18	17	14	11
	B1618	1.24		2762.6	1413.4	331.3	135.1	73.4	31.3	19	18	16	12
	B1619	1.38		2182.4	1302.0	340.5	133.6	70.1	28.8	18	18	16	12
	B1620	0.62	0.4 PPM	1481.6	870.6	221.6	85.8	44.0	18.4	18	17	15	11
	B1621	0.75	1.6 PPM	3712.6	1299.9	241.7	80.1	44.4	22.3	19	17	15	12
2-Sep-14	B1622	0.48		42.1	19.2	3.0	1.2	0.7	0.3	13	11	9	5
	B1623	0.08		186.7	64.2	5.5	1.8	1.2	0.6	15	13	10	6
	B1624	0.31		180.8	62.4	6.8	2.7	1.3	0.5	15	13	10	6
	B1625	0.22		200.1	72.6	9.0	4.0	2.3	1.1	15	13	10	7
	B1626	0.42		24.7	7.5	0.8	0.3	0.2	0.1	12	10	7	4
	B1627	0.23		634.7	280.1	39.3	13.8	7.6	4.1	16	15	12	9
	B1629	0.62		614.0	328.6	58.3	18.4	8.8	3.4	16	16	13	9
	B1630	0.60		1134.6	237.3	10.8	3.5	2.1	1.1	17	15	11	7
	B1631	1.00		1120.6	296.7	35.2	12.0	6.6	2.9	17	15	12	9
	B1632	0.42	1.4 PPM	8888.4	1550.1	123.3	11.0	2.0	0.4	20	18	14	6
4-Sep-14	B1634	1.09		2480.8	1189.1	279.5	114.3	61.0	24.7	18	17	15	12
	B1635	0.36	0.2 PPM	1796.6	907.7	193.5	65.5	30.6	11.1	18	17	15	11
	B1636	1.08		2404.2	1179.1	284.2	114.9	62.0	26.2	18	17	15	12
	B1637	0.89	0.2 PPM	1814.2	937.7	207.6	76.2	38.2	14.6	18	17	15	11
	B1638	1.26		3926.9	1556.5	275.1	102.1	52.2	22.2	19	18	15	12
	B1639	2.32		6044.6	3153.1	685.3	224.4	102.6	36.2	20	19	17	12
	B1640	1.33		2425.2	1117.7	214.6	73.5	35.8	13.3	18	17	15	11
	B1641	0.76	0.2 PPM	2953.4	840.4	143.8	46.4	22.5	8.4	19	17	14	10
	B1642	0.72	0.2 PPM	3693.9	1066.9	101.9	32.7	16.8	7.9	19	17	14	10
	B1643	0.61		2159.5	647.3	42.7	11.1	4.7	2.0	18	17	13	8
	B1644	0.83		1119.0	189.0	17.1	7.0	3.8	1.6	17	15	11	8
5-Sep-14	B1645	0.21		692.9	242.6	14.3	3.7	1.9	0.9	17	15	11	7
	B1646	0.57		1635.5	470.4	43.5	15.2	8.0	3.5	18	16	13	9
	B1647	0.41		1112.8	308.0	12.7	4.2	2.3	1.1	17	15	11	7
9-Sep-14	B1648	0.49		263.3	104.7	11.5	3.8	2.0	0.8	15	14	11	7
	B1649	0.17		291.5	127.0	15.8	6.3	3.7	2.0	15	14	11	8
	B1650	0.27		219.6	89.4	13.3	5.1	3.0	1.7	15	14	11	8
	B1651	0.30		265.7	112.7	15.1	5.3	2.8	1.6	15	14	11	8
	B1652	0.37		261.1	92.5	11.8	4.7	2.7	1.3	15	14	11	7
	B1653	0.41	2.6 PPM	7783.7	1522.2	112.6	36.3	18.8	7.9	20	18	14	10
15-Sep-14	B1654	0.45		1086.4	491.3	87.4	34.7	19.0	8.1	17	16	14	10
	B1655	0.22		538.6	222.4	34.6	12.1	6.3	2.4	16	15	12	8
	B1656	0.52		48.4	17.8	3.2	1.3	0.7	0.4	13	11	9	6
	B1657	0.26		228.8	124.6	55.9	19.2	10.5	5.5	15	14	13	10
	B1658	0.52	4.0 PPM	12482.3	1583.3	115.7	35.2	18.6	6.6	21	18	14	10
17-Sep-14	B1662	0.43	2.6 PPM	28632.6	7425.8	217.2	29.7	16.7	8.5	22	20	15	10
	B1664	1.80		4545.7	1790.8	280.5	111.1	65.4	34.3	19	18	15	12
	B1665	1.91		7088.1	2814.5	189.6	63.3	37.7	18.0	20	19	15	11
	B1666	6.22		5769.4	2404.5	401.3	127.0	69.4	34.3	20	18	16	12
	B1667	9.86		13749.9	3252.9	499.5	175.9	92.9	47.0	21	19	16	13
18-Sep-14	B1668	0.28		547.5	210.0	33.1	12.2	6.5	3.0	16	15	12	9
	B1669	0.31		406.6	188.3	22.1	6.5	2.9	1.0	16	15	12	7
19-Sep-14	B1670	0.52		530.7	263.6	45.0	19.4	11.4	5.4	16	15	13	10
	B1671	0.35		333.3	164.0	29.3	13.1	7.3	3.6	16	15	12	9
	B1672	0.36		247.1	122.9	19.3	7.0	3.9	1.9	15	14	11	8
	B1673	0.18		495.6	200.2	21.3	7.9	4.1	2.0	16	15	12	8
	B1674	0.39		272.7	133.5	18.9	6.8	4.2	2.2	15	14	11	8
	B1675	0.31		612.2	281.7	44.9	18.0	10.3	4.9	16	15	13	9
	B1676	0.50		524.2	207.8	26.3	9.7	5.1	2.9	16	15	12	9
	B1677	0.21	0.4 PPM	16413.5	3864.8	45.7	11.5	6.8	4.0	21	19	13	9
	B1678	0.34		303.0	96.3	10.8	4.0	2.4	1.3	15	14	11	7
	B1679	0.34		491.0	164.6	19.7	6.7	4.1	2.0	16	15	11	8
	B1680	0.24		496.7	188.6	20.0	6.9	3.7	1.7	16	15	11	8
	B1681	0.41	0.4 PPM	3951.0	671.5	22.5	8.0	4.3	2.4	19	17	12	8
	B1682	0.31	0.4 PPM	4292.2	1000.3	30.1	10.1	6.2	3.6	19	17	12	9
22-Sep-14	B1683	0.27	0.4 PPM	4167.2	1318.3	109.5	34.2	18.3	8.2	19	18	14	10
23-Sep-14	B1677*	0.21	0.4 PPM	1184.0	405.5	52.1	19.3	10.3	4.0	17	16	13	9
	B1684	0.42		813.0	374.7	46.7	16.9	9.3	5.0	17	16	13	9
	B1685	0.33		1002.1	410.7	47.8	13.3	6.2	2.5	17	16	13	8
24-Sep-14	B1686	0.00	1.8 PPM	45040.3	12888.3	316.5	44.0	24.0	12.3	23	21	15	11
25-Sep-14	B1688	0.18		82.5	47.2	9.8	3.6	1.9	1.0	14	13	10	7
	B1689	0.79	92 PPM	109320.0	55788.3	738.0	96.6	44.4	18.7	24	23	17	11
	B1690	0.25		124.8	77.0	16.4	7.0	4.4	2.6	14	13	11	9
	B1691	0.22		250.3	42.7	12.6	4.9	3.0	1.9	15	13	11	8

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	B1692	0.09	0.12 PPM	8910.2	239.8	15.4	5.8	3.0	1.5	20	15	11	8
29-Sep-14	B1693	0.69		1864.4	501.8	21.2	4.0	1.8	0.7	18	16	12	7
	B1694	0.74		722.0	267.4	21.1	4.8	2.3	0.7	17	15	12	7
	B1695	0.68		460.4	103.6	6.5	1.9	0.8	0.4	16	14	10	6
	B1697	0.00		103.6	48.0	11.2	4.4	2.6	1.3	14	13	11	7
	B1698	0.00		167.6	93.6	16.5	5.0	2.7	1.1	15	14	11	7
	B1699	0.23		1464.0	310.1	50.9	19.7	11.4	5.8	18	15	13	10
	B1702	0.76	4.4 PPM	16086.5	3689.6	240.2	47.1	23.8	11.4	21	19	15	11
1-Oct-14	1	1.10		6905.0	2270.6	176.6	50.5	25.1	10.8	20	18	15	11
	27	0.51		422.0	156.6	24.5	10.1	5.9	3.0	16	14	12	9
2-Oct-14	68	0.51		176.8	40.0	2.2	0.7	0.3	0.2	15	12	8	5
	69	0.44		204.5	51.2	4.7	1.7	0.9	0.4	15	13	9	6
	70	0.31		370.5	78.1	4.4	1.4	0.7	0.3	16	13	9	5
	71	0.23		612.5	202.8	17.7	4.4	1.4	0.7	16	15	11	7
3-Oct-14	116	0.43		1546.9	591.4	87.6	32.7	17.4	7.8	18	16	14	10
	133	0.31		1167.8	467.2	70.4	24.0	11.6	4.8	17	16	13	9
7-Oct-14	134	0.36		826.0	206.4	35.0	14.6	8.3	3.5	17	15	12	9
	135	0.52	0.2 PPM	1602.1	811.8	240.1	108.3	57.1	22.5	18	17	15	12
	136	0.49		1117.5	571.0	159.3	63.8	32.4	12.8	17	16	14	11
	137	0.58		1036.5	524.3	120.0	38.4	17.0	5.1	17	16	14	10
	138	0.63		944.2	401.7	87.4	27.3	10.8	3.6	17	16	14	9
	139	1.09		2239.8	978.5	201.0	58.3	26.8	9.3	18	17	15	10
	140	0.71	0.4 PPM	2008.5	987.7	253.3	96.1	45.9	17.8	18	17	15	11
	141	0.49	0.4 PPM	1323.5	722.3	202.4	73.8	36.2	13.1	18	17	15	11
	142	1.24		2116.7	891.7	252.8	116.5	68.4	31.0	18	17	15	12
	143	0.63	0.4 PPM	2085.5	711.6	168.1	71.8	35.7	13.5	18	17	15	11
9-Oct-14	285	0.68		1220.8	552.9	90.5	34.9	18.5	7.9	17	16	14	10
	288	0.33		979.2	392.3	61.2	24.2	12.5	5.9	17	16	13	10
	294	0.27		838.0	296.4	36.2	11.8	5.8	2.4	17	15	12	8
14-Oct-14	362	0.51		223.8	104.0	18.8	7.0	4.3	2.0	15	14	11	8
	363	0.52		480.2	251.1	56.4	22.7	13.4	6.2	16	15	13	10
	364	0.46		254.3	129.3	25.3	8.2	4.5	2.4	15	14	12	8
	366	0.33		295.8	115.9	20.7	7.9	4.1	1.7	15	14	12	8
15-Oct-14	423	0.31		1104.8	454.1	50.7	17.8	10.2	5.0	17	16	13	9
	424	0.44		668.5	171.1	14.2	3.8	1.8	0.8	17	15	11	7
16-Oct-14	472	0.76	0.4 PPM	5912.7	1673.1	103.2	21.6	8.8	3.4	20	18	14	9
	473	0.32		1555.3	653.8	69.7	21.7	10.1	4.1	18	17	13	9
	474	0.22		1042.3	407.0	46.2	15.1	8.1	3.3	17	16	13	9
17-Oct-14	495	0.79	0.8 PPM	2568.7	832.5	72.8	28.6	17.0	9.3	19	17	13	10
	496	0.13		868.9	346.5	41.9	13.7	6.9	2.7	17	16	13	9
	497	1.41		6785.4	2749.2	199.4	62.7	31.3	12.5	20	19	15	11
	498	1.56		4534.4	1362.4	154.0	72.0	45.2	26.3	19	18	14	12
20-Oct-14	573	2.93		6108.6	1956.0	334.5	148.1	92.6	52.2	20	18	16	13
	574	1.67		7927.8	3691.5	671.7	231.4	120.5	52.0	20	19	17	13
23-Oct-14	569	0.25		657.4	297.4	38.2	10.8	5.5	2.0	17	15	12	8
	653	0.26		567.9	281.1	35.7	10.3	5.2	2.7	16	15	12	9
27-Oct-14	785	0.75		2276.1	984.1	159.6	58.7	32.2	15.1	18	17	14	11
	786	0.26		145.0	72.0	10.3	3.2	1.5	0.6	14	13	11	6
	733	0.30		554.8	201.6	19.8	6.5	3.1	1.3	16	15	11	7
29-Oct-14	797	0.89		1435.0	601.5	64.6	19.6	8.8	3.3	18	16	13	9
	798	0.88	0.6 PPM	3380.1	1172.4	113.2	28.6	12.7	4.0	19	17	14	9
	817	0.33		749.0	291.2	24.8	6.9	3.2	1.4	17	15	12	8
	818	0.52		1204.8	382.0	39.1	12.6	7.3	3.4	17	16	12	9
	819	0.37		1591.6	618.9	86.3	32.4	17.4	8.7	18	16	14	10
	820	0.16		979.7	298.8	28.4	7.0	3.2	0.9	17	15	12	7
	821	0.51		647.7	259.5	28.2	8.3	3.7	1.6	17	15	12	8
	822	0.65	0.6 PPM	2965.2	1017.0	96.3	24.2	10.5	3.7	19	17	14	9
	823	0.10		161.3	56.7	9.4	3.5	1.9	0.9	15	13	10	7
30-Oct-14	840	0.49		1839.1	345.8	31.5	18.2	14.0	9.9	18	16	12	10
	845	0.54		1659.5	315.8	34.8	18.7	13.9	10.1	18	15	12	11
	851	0.25		431.8	143.4	31.9	15.0	8.6	4.2	16	14	12	9
	857	0.40		413.2	160.3	34.4	16.6	11.8	7.3	16	15	12	10
31-Oct-14	877	0.30		743.3	206.6	21.8	8.9	5.5	3.3	17	15	12	9
	878	0.49		1358.1	431.1	47.0	16.5	8.9	4.0	18	16	13	9
4-Nov-14	974	0.40		203.5	77.0	10.6	4.5	2.9	1.7	15	13	11	8
6-Nov-14	1084	0.40		38.3	14.6	2.2	0.9	0.7	0.3	12	11	8	5
	1085	0.51		91.9	31.5	3.0	1.1	0.7	0.3	14	12	9	5
	1086	0.67		263.5	143.5	31.6	11.1	5.3	1.7	15	14	12	8
	1087	0.39		110.3	38.5	7.8	3.2	1.5	0.8	14	12	10	7
	1088	2.19		10159.4	4016.9	309.6	79.3	32.2	10.1	21	19	15	11

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	1089	0.62		342.2	135.1	17.3	7.0	4.4	2.4	16	14	11	8
14-Nov-14	1275	1.93		7993.2	3575.1	434.2	157.5	85.4	41.9	20	19	16	13
	1277	0.41		181.6	80.5	13.9	5.5	2.9	1.7	15	14	11	8
	1278	0.36		144.2	72.5	16.1	6.0	3.3	1.9	14	13	11	8
	1280	0.34		216.5	94.9	19.3	7.2	3.9	1.9	15	14	11	8
	1282	0.45		184.8	78.8	12.6	5.0	2.9	1.3	15	13	11	7
	1283	0.43		101.9	48.2	11.3	4.7	2.8	1.2	14	13	11	7
	1285	0.23		165.3	65.3	11.1	4.8	2.8	1.5	15	13	11	8
	1286	0.44		204.3	102.7	19.9	7.9	5.0	2.7	15	14	11	9
	1287	0.54		87.5	42.2	12.0	5.8	3.6	1.7	14	13	11	8
	1288	0.39		213.0	70.1	13.5	5.3	3.0	1.5	15	13	11	8
	1289	1.65		7070.4	1991.0	193.3	82.9	49.9	23.3	20	18	15	12
	1290	0.45		1255.2	494.5	46.6	11.6	5.1	1.3	17	16	13	7
	1291	0.15		303.0	119.0	12.1	4.0	1.9	0.7	15	14	11	7
	1293	0.82		2683.6	797.2	39.7	10.1	5.0	2.0	19	17	12	8
	1294	0.35		284.2	126.5	32.0	13.3	8.2	4.3	15	14	12	9
17-Nov-14	1295	0.49	0.4 ppm	1664.6	997.2	167.0	48.2	21.9	6.5	18	17	15	10
	1296	0.47		1257.5	666.7	155.6	57.5	28.8	10.3	17	17	14	11
	1297	0.60		650.2	335.2	94.9	39.4	21.6	10.6	17	16	14	11
	1298	0.45	0.4 ppm	991.9	634.0	212.1	86.0	44.2	16.2	17	16	15	11
	1299	0.71	0.2 ppm	1235.3	805.8	251.5	101.2	49.4	18.2	17	17	15	11
	1300	0.77	0.4 ppm	1081.0	656.6	225.9	98.9	52.1	20.6	17	17	15	12
	1301	0.64		3800.8	994.7	65.9	23.2	13.8	7.2	19	17	13	10
	1302	0.73	0.6 PPM	11783.8	3061.2	158.6	45.9	24.2	10.8	21	19	14	11
	1303	0.55		3468.6	1041.3	74.5	25.0	15.3	8.8	19	17	13	10
	1304	0.70		3002.3	913.5	72.9	28.4	17.3	10.0	19	17	13	10
	1305	1.04		6112.2	1872.7	152.8	61.2	36.0	18.9	20	18	14	11
	1306	1.06		2833.1	924.4	156.5	71.7	47.5	28.5	19	17	14	12
	1307	1.36		316.8	121.0	24.6	11.0	7.0	3.7	15	14	12	9
	1308	0.19		146.6	49.7	8.1	3.5	2.2	1.2	14	13	10	7
	1309	0.13		251.0	92.5	17.6	6.2	3.2	1.1	15	14	11	7
	1310	0.29		590.3	279.3	43.0	12.8	6.1	2.6	16	15	13	9
	1311	0.09		89.8	29.2	3.2	1.0	0.5	0.3	14	12	9	5
	1312	0.50		593.8	259.4	49.5	17.4	9.3	4.1	16	15	13	9
20-Nov-14	1414	0.40		239.6	89.9	6.4	1.9	1.1	0.6	15	14	10	6
	1415	0.97		1043.1	421.2	59.2	23.5	13.3	6.4	17	16	13	10
	1416	1.16		1960.8	616.4	81.9	34.0	20.6	10.3	18	16	14	11
	1417	0.41		1040.2	503.3	100.0	38.4	21.7	10.9	17	16	14	11
	1418	0.00		191.8	72.6	17.1	8.4	5.2	2.6	15	13	11	9
	1419	0.56		197.5	78.3	19.3	10.3	7.4	4.7	15	13	11	9
	1420	1.04		186.0	67.9	12.2	5.6	3.5	1.8	15	13	11	8
	1421	0.48		238.1	86.3	17.2	6.3	3.5	1.6	15	14	11	8
	1422	0.98		197.0	63.3	18.9	11.0	7.9	5.5	15	13	11	10
	1423	0.71		150.8	43.4	7.6	3.4	1.9	1.0	14	13	10	7
	1427	0.17		193.8	66.4	13.3	6.5	4.3	2.2	15	13	11	8
	1429	0.26		264.8	76.0	12.6	6.7	4.7	3.4	15	13	11	9
	1430	0.37		165.6	59.4	12.9	6.4	4.0	2.2	15	13	11	8
	1431	0.46		202.5	65.1	17.7	10.6	7.4	5.1	15	13	11	10
	1432	0.94	0.6 PPM	7133.8	2162.8	204.2	59.8	32.1	16.2	20	18	15	11
	1448	0.24		307.7	88.5	10.5	5.2	3.4	1.8	15	14	11	8
	1449	0.34		450.5	121.4	20.9	13.2	9.8	7.4	16	14	12	10
	1450	0.59		515.7	184.1	22.5	9.1	5.6	2.8	16	15	12	9
	1451	0.28		483.9	139.7	25.1	14.7	10.6	7.0	16	14	12	10
	1452	0.96		309.3	67.3	6.9	3.1	2.1	1.5	15	13	10	8
	1453	0.27		425.6	138.5	16.7	7.8	5.0	2.4	16	14	11	8
	1454	0.19		234.4	94.7	16.0	5.0	2.2	1.1	15	14	11	7
26-Nov-14	1601	0.19		856.2	232.8	24.6	6.8	3.7	1.9	17	15	12	8
2-Dec-14	1637	0.32		1058.5	468.6	47.6	12.6	5.3	2.2	17	16	13	8
	1638	0.26		647.9	296.2	42.6	14.5	7.5	3.7	17	15	13	9
	1639	0.24		506.8	257.6	46.2	17.4	9.3	4.2	16	15	13	9
	1640	0.37		478.2	238.3	34.8	12.5	6.6	2.9	16	15	12	9
	1641	0.34		420.4	222.5	48.7	17.7	9.9	4.3	16	15	13	9
	1642	0.23		392.8	193.8	20.7	5.5	2.5	0.9	16	15	12	7
	1643	0.14		280.2	134.3	11.3	3.4	1.6	0.7	15	14	11	7
	1644	0.23		229.0	111.7	10.0	3.4	1.9	0.8	15	14	10	7
	1645	0.43		251.9	120.0	12.1	4.0	2.0	1.0	15	14	11	7
	1763	0.33		644.4	265.4	43.3	13.8	6.5	2.7	17	15	13	9
	1764	0.28		238.3	96.6	13.0	4.4	2.4	1.2	15	14	11	7
	1765	0.38		606.9	213.6	24.1	7.8	4.0	1.4	16	15	12	8
	1766	0.31		221.6	73.2	6.2	1.7	0.8	0.3	15	13	10	5

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	1767	0.25		276.8	54.7	4.0	1.0	0.6	0.3	15	13	9	5
	1768	0.40		182.3	43.2	3.7	1.3	0.9	0.5	15	13	9	6
	1769	0.40		285.5	69.5	5.1	1.5	0.8	0.4	15	13	10	6
4-Dec-14	1786	0.52		758.7	355.6	43.9	14.7	7.8	3.5	17	16	13	9
	1817	0.41		1432.6	618.3	78.7	26.2	13.4	5.4	18	16	13	10
8-Dec-14	1861	0.27		712.2	307.5	39.5	11.6	6.4	2.7	17	15	12	9
	1862	0.23		907.8	380.2	42.8	14.2	6.9	3.4	17	16	13	9
	1865	0.25		599.6	247.6	31.2	10.2	5.5	2.5	16	15	12	8
	1868	0.40		566.7	251.2	34.5	11.8	6.5	2.7	16	15	12	9
	1873	0.51		1260.4	638.6	74.9	19.4	9.4	4.1	17	16	13	9
	1880	0.38		1146.6	696.0	114.7	29.7	12.9	4.5	17	17	14	9
	1881	0.42		587.4	203.9	20.2	5.9	2.8	1.2	16	15	12	7
	1882	0.67		762.1	242.3	22.5	5.8	2.5	1.0	17	15	12	7
	1900	0.24		895.7	249.9	17.9	4.1	1.7	0.7	17	15	11	7
	1903	0.16		245.4	102.0	20.1	9.2	5.3	2.8	15	14	12	9
	1904	0.39		238.8	69.5	7.5	2.9	1.5	0.9	15	13	10	7
	1905	0.50		997.4	253.8	14.1	3.7	1.9	0.9	17	15	11	7
9-Dec-14	1907	0.36		539.7	277.1	41.5	13.7	6.5	2.8	16	15	13	9
	1956	0.82		1939.4	624.7	54.5	17.8	9.3	3.9	18	16	13	9
15-Dec-14	2124	0.10		114.5	57.2	12.9	6.2	3.7	1.8	14	13	11	8
	2125	0.20		116.0	61.0	12.7	5.0	3.2	1.9	14	13	11	8
	2126	0.26		80.3	37.6	8.6	3.9	2.4	1.2	14	12	10	7
	2127	0.14		446.9	153.5	19.1	7.0	3.8	2.0	16	14	11	8
	2128	0.38		760.0	183.4	5.4	1.5	0.7	0.5	17	15	10	6
	2129	0.73		1418.9	362.2	12.7	3.0	1.2	0.4	18	16	11	6
	2131	0.08		410.1	148.1	20.6	7.0	3.3	1.2	16	14	12	7
	2132	1.04		2464.4	1252.2	316.4	140.8	75.4	31.3	18	17	15	12
	2133	0.61		489.8	179.0	28.6	10.1	5.1	2.0	16	15	12	8
	2134	0.29		1240.3	476.3	43.2	10.9	5.1	1.8	17	16	13	8
16-Dec-14	2135	0.35		729.7	296.6	36.7	11.2	5.6	1.9	17	15	12	8
	2136	0.41		1598.7	630.5	78.8	29.6	15.7	6.9	18	16	13	10
	2137	0.46		1199.5	475.0	52.4	18.2	9.8	5.0	17	16	13	9
	2138	0.40		1111.5	481.3	65.1	19.9	10.8	4.6	17	16	13	9
	2139	0.38		1307.3	576.0	77.6	25.6	12.8	5.9	18	16	13	10
	2160	0.77		1226.5	673.9	124.4	38.3	17.7	6.1	17	17	14	10
	2173	0.36		356.9	138.8	13.9	3.6	1.6	0.4	16	14	11	6
17-Dec-14	2195	0.34		660.7	276.9	37.9	13.0	6.7	2.9	17	15	12	9
	2196	0.16		577.9	242.6	31.5	11.5	6.0	2.4	16	15	12	8
	2197	0.36		1992.7	749.2	77.6	23.1	11.6	4.6	18	17	13	9
	2198	0.39		1781.0	556.2	44.8	11.5	5.9	2.5	18	16	13	8
	2199	0.49		603.4	208.3	27.3	10.1	5.5	2.3	16	15	12	8
18-Dec-14	2241	0.44		450.0	220.1	39.5	11.7	5.5	2.1	16	15	12	8
23-Dec-13	2350	0.54		1300.6	383.5	32.0	8.7	4.4	1.9	18	16	12	8
	2355	0.08		438.9	173.7	23.4	8.3	4.4	2.0	16	15	12	8
	2366	0.36		429.7	131.1	16.2	5.7	2.9	1.3	16	14	11	7
	2367	0.31		466.5	155.0	19.1	6.5	3.5	1.4	16	14	11	8
	2668	0.27		391.1	131.6	13.8	4.9	2.0	0.8	16	14	11	7
	2369	0.22		525.9	163.6	14.8	4.6	2.5	1.1	16	15	11	7
	2373	0.93		3361.9	1103.3	135.8	44.5	22.7	9.6	19	17	14	10
	2381	0.28		331.7	127.6	17.6	6.0	3.0	1.5	16	14	11	8
	2391	0.44		2332.3	859.7	109.8	31.1	13.7	4.3	18	17	14	9
29-Dec-14	2428	0.38		1880.0	632.1	35.1	7.0	2.9	1.2	18	16	12	7
	2477	0.26		709.5	335.2	35.2	8.3	4.1	1.4	17	16	12	8
31-Dec-14	2500	0.20		328.6	123.3	16.1	5.6	3.2	1.5	16	14	11	8
	2501	0.33		457.7	155.9	21.1	6.6	3.3	1.6	16	14	12	8
	2502	0.34		659.2	226.0	34.9	16.0	10.0	5.8	17	15	12	10
	2503	0.31		471.7	174.0	24.2	8.8	5.0	2.7	16	15	12	9
	2504	0.40		615.0	209.4	26.9	10.8	5.9	3.3	16	15	12	9
7-Jan-15	2589	2.87		5969.7	892.0	68.0	28.0	16.1	7.8	20	17	13	10
	2598	0.38		1314.3	392.7	37.5	12.7	6.9	3.5	18	16	12	9
	2599	0.18		1694.9	393.6	33.6	10.3	5.4	2.6	18	16	12	9
	2600	0.29		1202.8	374.4	49.1	20.0	11.9	5.8	17	16	13	10
	2609	0.49		792.6	271.6	31.4	10.5	5.4	2.2	17	15	12	8
	2610	0.22		916.2	387.8	47.7	16.7	8.6	3.7	17	16	13	9
	2611	0.66		2246.7	777.0	76.0	22.9	11.3	4.9	18	17	13	9
	2612	0.40		910.9	365.6	42.5	14.5	7.2	3.5	17	16	13	9
	2613	0.74		2923.3	980.1	104.4	32.7	16.5	7.1	19	17	14	10
	2614	0.36		2356.7	914.7	117.1	39.6	21.7	9.9	18	17	14	10
	2645	0.44		599.3	195.1	20.7	8.0	4.1	2.1	16	15	12	8
	2646	0.38		827.2	369.5	60.1	24.7	13.3	6.7	17	16	13	10

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	2647	0.84		2126.2	659.0	81.6	35.2	22.1	12.6	18	17	14	11
8-Jan-15	2682	0.45		378.2	149.3	28.6	10.7	5.5	2.6	16	14	12	9
12-Jan-15	2746	0.41		693.9	414.3	59.4	16.9	7.9	2.6	17	16	13	9
	2747	0.54		682.2	272.2	29.5	8.9	4.6	2.2	17	15	12	8
14-Jan-15	2817	0.39		937.0	387.9	49.1	14.2	5.7	2.0	17	16	13	8
	2818	0.28	0.6 PPM	3839.8	1311.8	80.2	16.4	6.6	1.9	19	18	14	8
	2819	0.37		3467.1	1088.5	48.9	11.1	5.2	2.1	19	17	13	8
	2820	0.25		555.0	183.1	30.2	18.5	14.5	11.0	16	15	12	11
	2821	0.60		2339.2	498.1	21.5	4.9	2.1	0.7	18	16	12	7
	2822	0.49		3809.5	780.8	34.0	10.3	5.0	2.3	19	17	12	8
	2823	0.48		2111.6	380.1	18.4	4.8	2.1	1.0	18	16	11	7
	2824	0.30		1086.0	237.6	14.1	4.3	2.4	0.9	17	15	11	7
	2825	0.32		383.2	102.8	7.9	2.0	0.9	0.4	16	14	10	6
	2826	0.39		183.1	66.3	19.6	13.1	9.4	5.9	15	13	11	10
	2827	0.23		117.9	57.0	26.3	20.0	15.6	11.2	14	13	12	11
15-Jan-15	2883	0.39		432.7	158.2	28.8	11.8	7.1	3.7	16	14	12	9
	2884	0.97		2714.1	453.3	30.2	9.7	5.0	2.2	19	16	12	8
18-Feb-15	2910	0.60		1055.2	508.1	83.0	27.7	13.7	7.5	17	16	14	10
	2912	0.20		538.2	243.6	40.0	13.7	7.9	4.5	16	15	12	9
	2980	0.31		227.6	103.3	21.9	9.4	6.5	4.4	15	14	12	9
	2981	1.20		425.3	219.6	53.3	24.8	17.3	12.6	16	15	13	11
	2983	0.27		781.2	324.4	34.5	9.3	4.8	2.4	17	16	12	8
	2985	0.18		946.3	358.8	40.0	11.1	6.3	3.5	17	16	12	9
	3042	0.39		720.9	338.2	48.8	14.1	7.5	4.0	17	16	13	9
	3043	0.65		511.6	259.6	39.4	12.3	6.8	3.7	16	15	12	9
	3155	0.49		113.0	39.0	3.7	1.0	0.5	0.3	14	12	9	5
	3156	2.20		7744.6	1725.5	343.8	166.1	110.9	73.3	20	18	16	13
	3157	0.63		888.0	384.3	79.5	40.5	26.8	17.2	17	16	13	11
	3168	0.71		981.2	414.5	39.0	9.8	5.2	2.9	17	16	12	9
	3208	0.35		545.0	276.0	46.5	14.7	7.7	3.7	16	15	13	9
	3209	0.16		927.5	420.5	54.9	17.3	8.6	4.6	17	16	13	9
	3210	0.35		1034.9	488.1	76.0	24.5	13.6	7.1	17	16	13	10
	3211	0.06		1037.5	479.8	64.0	20.6	12.1	6.9	17	16	13	10
	3212	0.23		278.6	131.1	18.0	6.3	3.5	2.1	15	14	11	8
	3214	0.31		683.9	310.3	47.0	14.2	7.5	4.6	17	15	13	9
	3215	0.40		1559.4	610.7	59.7	17.5	10.0	5.3	18	16	13	10
	3216	0.31		1089.5	447.2	55.6	17.3	9.0	4.6	17	16	13	9
	3217	0.60		1352.6	608.5	89.1	30.4	17.1	10.6	18	16	14	11
	3218	0.57		1744.8	686.5	76.3	19.8	9.5	5.3	18	17	13	10
	3242	0.66		951.2	450.0	65.5	21.0	11.5	6.6	17	16	13	10
	3243	0.53		952.7	474.4	66.7	21.5	11.3	6.3	17	16	13	10
	3288	0.43		1139.7	447.1	57.3	17.8	9.7	5.5	17	16	13	10
	3289	0.24		855.3	337.7	48.7	16.5	8.8	5.0	17	16	13	9
	3290	0.27		639.8	321.8	42.4	11.0	5.3	3.0	16	16	13	9
	3371	0.43		474.2	245.6	35.8	10.8	6.1	3.8	16	15	12	9
	3372	0.35		194.6	114.0	21.5	8.6	5.4	3.5	15	14	12	9
	3373	0.60		391.4	220.1	52.4	22.3	14.1	9.5	16	15	13	10
	3374	0.49		1009.2	430.0	49.6	15.2	7.6	3.7	17	16	13	9
	3402	0.48		1199.2	587.2	49.7	10.9	5.6	2.7	17	16	13	9
	3403	0.26		1394.2	536.1	62.0	16.9	9.0	4.3	18	16	13	9
	3404	0.19		719.5	299.0	31.2	9.3	4.9	2.7	17	15	12	9
	3405	0.34		482.6	195.9	19.3	5.0	2.5	1.2	16	15	11	7
20-Feb-15	3406	0.29		392.6	173.3	19.5	4.7	2.6	1.3	16	15	11	7
	3407	0.70		296.7	116.8	13.9	4.6	2.7	1.7	15	14	11	8
	3498	0.15		1094.4	447.4	49.7	13.7	7.1	3.5	17	16	13	9
	3499	0.28		861.9	470.6	72.4	22.5	12.5	6.1	17	16	13	10
	3500	0.34		979.7	455.1	59.4	16.5	8.7	4.4	17	16	13	9
	3501	0.43		682.7	325.9	47.9	15.2	7.9	4.4	17	16	13	9
	3502	0.28		438.2	242.1	42.5	13.6	7.3	4.1	16	15	13	9
	3503	0.05		829.3	455.4	65.5	16.7	8.9	4.4	17	16	13	9
	3554	0.35		386.4	235.1	42.3	10.9	5.3	2.4	16	15	13	8
	3555	0.25		530.2	252.5	31.4	9.1	4.5	2.4	16	15	12	8
	3556	0.32		1853.8	848.9	74.7	17.5	7.9	4.0	18	17	13	9
	3557	0.30		505.1	253.3	36.2	11.1	5.8	3.0	16	15	12	9
	3558	0.60		1479.7	778.1	70.9	16.5	8.5	5.1	18	17	13	10
	3559	0.93		609.2	364.3	137.3	77.1	55.2	38.5	16	16	14	12
23-Feb-15	3560	0.64		536.9	287.3	93.9	48.0	33.0	21.2	16	15	14	12
	3561	0.51		714.7	309.2	55.2	24.1	14.5	9.1	17	15	13	10
	3562	0.54		475.2	223.4	30.8	10.8	6.6	4.0	16	15	12	9
	3628	0.36		643.4	364.8	57.0	17.1	8.3	4.0	17	16	13	9

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	3715	0.36		891.4	473.5	59.2	13.8	6.3	3.1	17	16	13	9
	3716	0.47		667.9	325.5	46.9	12.1	6.1	2.5	17	16	13	8
	3717	0.53		500.8	262.8	48.8	14.9	8.4	5.1	16	15	13	10
	3719	0.52		509.2	226.5	26.0	7.7	4.0	2.0	16	15	12	8
	3723	0.12		683.1	319.0	54.9	19.4	10.6	6.0	17	15	13	10
	3724	0.30		456.2	209.3	33.2	12.7	7.8	4.5	16	15	12	9
	3725	0.62		937.3	470.5	79.1	28.1	16.2	9.1	17	16	13	10
	3726	0.30		792.6	360.7	63.0	21.8	12.5	7.2	17	16	13	10
	3727	0.20		966.8	447.2	69.0	24.7	14.7	8.3	17	16	13	10
	3729	0.13		771.7	334.7	49.9	16.9	10.3	6.0	17	16	13	10
	3732	0.25		423.1	194.7	30.0	9.7	5.4	3.6	16	15	12	9
	3760	0.53		407.3	108.0	7.6	1.8	1.1	0.8	16	14	10	7
	3761	0.45		1016.0	250.8	14.0	2.7	1.1	0.6	17	15	11	6
	3800	0.27		339.7	128.4	14.2	4.6	2.7	1.3	16	14	11	7
	3801	0.26		257.0	106.0	13.8	3.9	1.6	0.8	15	14	11	7
	3858	0.21		577.3	197.6	21.0	6.2	3.5	1.7	16	15	12	8
	3859	1.29		3968.6	1380.9	89.3	20.6	9.3	5.2	19	18	14	10
	3898	0.32		957.3	342.6	46.5	13.1	6.3	3.1	17	16	13	9
	3899	0.83		1034.4	385.8	43.7	10.4	5.3	2.8	17	16	13	9
	3900	0.67		1374.9	520.9	44.5	11.2	5.4	2.4	18	16	13	8
24-Feb-15	3913	0.49		878.3	317.0	34.5	9.1	4.1	2.3	17	15	12	8
	3914	0.95		1944.7	884.7	132.3	33.0	15.0	6.8	18	17	14	10
26-Feb-15	4002	0.37		942.5	408.1	52.1	13.7	6.0	2.9	17	16	13	9
	4003	0.42		469.4	197.7	28.3	9.6	4.9	2.3	16	15	12	8
	4004	0.23		779.0	307.7	39.9	12.1	6.9	3.7	17	15	12	9
	4005	0.42		416.3	163.4	25.3	8.1	4.3	2.0	16	15	12	8
	4006	0.29		407.0	137.2	19.0	6.4	3.8	1.9	16	14	11	8
2-Mar-15	4052	0.37		644.1	182.1	14.8	3.5	1.5	0.7	17	15	11	7
	4053	0.42		581.3	244.5	21.7	4.8	2.0	0.9	16	15	12	7
	4055	0.31		1363.1	426.2	18.7	3.4	1.3	0.7	18	16	11	7
	4056	0.61		1658.4	576.1	47.9	12.2	6.0	2.8	18	16	13	9
	4057	0.57		750.7	297.4	52.7	13.3	5.9	2.6	17	15	13	9
	4091	0.42		374.9	121.5	15.8	4.9	2.9	1.3	16	14	11	7
	4092	0.19		582.7	160.3	15.1	3.6	1.9	1.0	16	15	11	7
	4093	0.18		368.0	105.3	9.9	2.3	1.1	0.6	16	14	10	6
5-Mar-15	4128	0.31		1196.1	380.2	37.4	8.5	3.9	2.0	17	16	12	8
	4189	0.24		254.0	110.8	21.7	5.9	2.7	1.2	15	14	12	7
9-Mar-15	4252	0.20		111.6	44.0	6.6	2.0	1.1	0.5	14	13	10	6
	4253	0.01		108.9	33.3	4.0	1.9	1.0	0.6	14	12	9	6
	4254	0.14		298.9	130.4	15.4	4.5	2.3	1.2	15	14	11	7
	4255	0.23		283.0	133.0	16.7	4.4	2.1	1.2	15	14	11	7
	4256	0.37		515.5	135.1	9.8	1.8	0.7	0.4	16	14	10	6
	4257	0.35		1121.1	373.5	63.3	23.2	13.1	7.2	17	16	13	10
	4258	0.56		751.5	226.3	15.7	3.6	1.6	0.6	17	15	11	6
	4259	0.37		303.6	103.5	15.0	5.1	2.8	1.3	15	14	11	7
	4260	0.35		400.3	139.1	16.3	5.0	2.7	1.7	16	14	11	8
	4261	0.29		417.0	135.9	13.1	4.0	2.2	1.2	16	14	11	7
	4262	0.51		1556.9	495.8	47.9	13.6	6.6	3.3	18	16	13	9
	4263	0.43		606.0	190.7	18.1	4.8	2.5	1.3	16	15	11	7
	4264	0.28		3611.1	464.5	21.4	7.5	4.0	2.3	19	16	12	8
	4265	0.67	0.4 PPM	5390.7	437.5	9.5	2.6	1.5	0.7	20	16	10	7
11-Mar-15	4325	0.26		1112.8	275.6	28.7	9.1	4.3	2.4	17	15	12	8
	4326	0.18		581.9	178.9	18.9	6.9	3.2	1.8	16	15	11	8
	4327	0.25		1084.4	378.1	48.0	14.5	7.0	3.8	17	16	13	9
12-Mar-15	4353	0.22		82.1	18.7	1.5	0.4	0.1	0.1	14	11	8	4
	4355	0.35		463.1	177.1	24.2	7.5	4.4	2.7	16	15	12	9
	4357	0.33		509.0	206.8	27.2	8.8	4.9	2.7	16	15	12	9
	4360	0.44		930.8	356.1	50.2	17.8	10.7	6.0	17	16	13	10
16-Mar-15	4398	0.37		148.8	64.2	7.3	1.7	1.0	0.5	14	13	10	6
	4399	0.06		218.8	86.3	7.5	1.7	0.8	0.5	15	14	10	6
	4400	0.11		77.4	28.1	3.3	1.1	0.6	0.4	13	12	9	6
	4401	0.31		288.4	140.2	12.9	3.2	1.3	0.6	15	14	11	6
	4402	0.26		198.3	81.4	11.6	4.3	2.7	1.5	15	14	11	8
	4403	0.08		111.2	42.7	6.7	2.1	1.3	0.7	14	13	10	7
	4404	0.37		148.8	64.4	9.7	3.6	2.2	1.1	14	13	10	7
	4405	0.32		147.9	62.3	8.0	2.6	1.5	0.8	14	13	10	7
	4460	0.44		588.9	200.2	14.8	3.7	2.0	1.1	16	15	11	7
18-Mar-15	4485	0.84		2659.2	1144.9	126.9	33.8	17.0	7.8	19	17	14	10
	4504	0.41		1148.5	456.6	49.4	13.6	6.3	3.4	17	16	13	9
	4515	1.18		10712.0	2085.6	80.2	16.8	8.3	4.6	21	18	14	9

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	4516	0.26		226.2	90.1	12.1	4.1	2.2	1.1	15	14	11	7
19-Mar-15	4539	0.52		1014.3	270.2	15.1	3.8	1.6	0.9	17	15	11	7
	4540	0.23		27.7	14.8	3.0	1.0	0.6	0.3	12	11	9	5
	4541	0.62		90.4	20.2	1.6	0.7	0.3	0.2	14	12	8	5
23-Mar-15	4544	0.35		630.0	223.2	32.2	10.7	5.9	3.0	16	15	12	9
	4546	0.21		422.4	184.3	33.4	10.9	5.3	2.5	16	15	12	8
	4588	0.27		1000.9	359.6	42.0	12.1	5.7	2.6	17	16	13	9
	4621	3.21		116662.1	97047.8	26795.3	4323.1	1283.2	372.2	24	24	22	16
24-Mar-15	4622	0.91	0.2 PPM	5367.3	1962.0	254.6	72.2	36.8	18.4	20	18	15	11
25-Mar-15	4632	0.34		1054.3	391.3	45.8	13.5	6.1	2.5	17	16	13	8
	4633	0.17		825.4	293.9	35.0	11.1	5.9	3.0	17	15	12	9
26-Mar-15	4690	0.72		1490.6	566.9	55.0	13.2	6.0	3.2	18	16	13	9
1-Apr-15	4864	0.15		592.3	178.8	10.4	1.7	0.8	0.3	16	15	11	5
	4865	0.11		444.5	205.4	29.1	9.1	4.9	2.5	16	15	12	8
	4866	0.34		510.7	251.1	40.0	13.0	6.8	3.4	16	15	12	9
	4867	0.27		344.1	133.9	17.6	4.6	2.4	1.2	16	14	11	7
	4868	0.46		201.3	66.1	5.9	1.5	0.6	0.2	15	13	10	5
	4869	0.39		302.5	99.5	11.9	3.7	2.0	1.1	15	14	11	7
	4870	0.40		290.6	99.8	20.0	7.0	4.5	2.8	15	14	11	9
	4871	2.79		16236.7	5260.7	348.2	64.6	24.5	9.9	21	20	16	10
	4872	0.73		882.9	309.3	23.0	4.5	1.8	0.8	17	15	12	7
	4873	2.10		10840.1	3029.1	225.6	46.3	20.7	9.7	21	19	15	10
3-Apr-15	4935	0.40		393.9	171.1	27.7	10.8	6.8	4.0	16	15	12	9
	4936	0.21		803.9	300.8	30.3	7.9	3.6	1.9	17	15	12	8
	4937	0.64		2483.1	994.8	113.2	32.7	17.1	9.6	18	17	14	10
	4938	1.92		11520.5	3347.9	304.7	89.0	46.5	25.2	21	19	15	12
6-Apr-15	4977	0.63		2022.5	776.4	97.4	31.2	17.6	9.4	18	17	14	10
	4983	0.30		1011.0	350.3	30.5	5.9	2.7	1.3	17	16	12	7
	4985	0.84	0.6 PPM	5832.7	1054.0	72.0	22.6	12.9	7.7	20	17	13	10
	4986	0.75	0.4 PPM	7177.0	1518.5	101.9	29.2	15.5	7.3	20	18	14	10
	4990	0.39		1360.4	332.8	33.0	11.2	6.0	2.7	18	16	12	9
	4994	0.33		1257.5	504.1	58.1	18.0	9.3	4.7	17	16	13	9
	4997	0.36		938.4	368.5	47.9	14.2	8.3	4.6	17	16	13	9
	5002	0.56		2254.8	807.9	80.5	22.3	11.8	6.5	18	17	14	10
	5005	0.43		1130.1	429.5	46.1	12.8	6.6	3.6	17	16	13	9
	5007	0.63		1694.1	671.0	70.3	17.8	9.3	4.6	18	17	13	9
	5008	0.37		2912.0	761.5	92.7	29.4	15.4	7.1	19	17	14	10
	5009	0.28		4201.9	975.4	62.0	14.8	7.1	3.8	19	17	13	9
	5010	0.45		1317.2	503.8	54.4	16.7	9.0	5.3	18	16	13	10
	5011	0.38		1125.9	456.9	52.2	14.2	7.1	3.4	17	16	13	9
8-Apr-15	5046	0.87		1081.5	365.7	46.7	11.0	5.0	2.7	17	16	13	9
	5052	0.45		3183.7	1007.3	105.4	26.2	11.3	4.9	19	17	14	9
9-Apr-15	5075	0.33		456.1	215.2	30.3	8.1	3.5	1.5	16	15	12	8
	5076	9.29		70475.0	29254.3	1623.5	354.8	173.0	88.9	23	22	18	14
	5077	4.88		45697.0	18718.1	1138.7	245.6	114.1	55.7	23	21	17	13
	5078	0.81		412.0	149.1	16.2	4.8	2.9	1.6	16	14	11	8
13-Apr-15	4813	0.42		509.3	158.8	12.5	2.7	1.1	0.7	16	14	11	7
	5160	1.40		4429.7	2427.0	564.1	192.1	96.7	43.4	19	18	16	13
	5161	0.70		608.5	258.6	22.1	5.4	2.5	1.3	16	15	12	7
	5162	1.31		2621.6	832.9	80.5	27.3	15.6	8.5	19	17	14	10
	5163	2.63		15989.5	5704.5	450.5	107.5	47.7	21.5	21	20	16	12
	5164	0.44		897.0	279.4	19.7	5.4	2.7	1.4	17	15	11	8
14-Apr-14	5168	0.29		905.1	424.2	75.9	24.9	14.0	7.3	17	16	13	10
	5169	0.09		1115.1	474.8	71.5	20.0	9.4	4.9	17	16	13	9
	5170	0.29		615.2	224.6	41.2	15.7	9.0	5.5	16	15	13	10
	5171	0.49		357.7	194.1	45.0	15.6	8.9	4.9	16	15	13	9
15-Apr-15	5186	0.31		2033.3	680.7	69.0	18.3	8.6	4.5	18	17	13	9
	5188	0.68		679.7	310.8	61.9	23.8	14.5	8.1	17	15	13	10
	5190	0.60		2241.3	743.0	88.5	30.2	15.3	8.2	18	17	14	10
	5193	0.00		1054.9	352.9	41.2	12.5	7.1	3.6	17	16	13	9
	5195	0.84		1709.7	622.7	46.0	9.4	3.9	2.3	18	16	13	8
	5199	0.55		1738.8	589.4	44.5	11.1	5.9	2.7	18	16	13	9
	5200	0.51		2815.3	1055.6	120.4	37.0	18.6	9.3	19	17	14	10
	5202	0.34		1107.2	392.9	37.0	8.5	3.9	1.5	17	16	12	8
16-Apr-15	5239	6.03		13224.1	4826.6	421.3	104.9	49.2	22.4	21	19	16	12
17-Apr-15	5270	0.81		1978.8	926.5	115.5	31.4	16.0	8.0	18	17	14	10
20-Apr-15	5292	0.35		304.5	75.9	5.6	2.1	1.2	0.7	15	13	10	7
	5293	0.16		185.6	44.9	4.2	1.6	1.0	0.5	15	13	9	6
	5294	0.64		1903.2	558.4	39.7	8.7	4.1	1.9	18	16	12	8
	5295	2.08		3319.2	1092.8	151.8	53.0	27.9	14.7	19	17	14	11

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
21-Apr-15	5339	0.78		1347.9	559.4	71.6	20.4	10.0	4.9	18	16	13	9
22-Apr-15	5341	0.34		988.7	424.4	59.6	16.3	9.1	5.3	17	16	13	10
	5342	0.93		2378.1	987.8	86.4	17.4	7.0	2.7	18	17	14	9
23-Apr-15	5391	1.24		3898.5	1383.8	175.6	51.5	28.4	14.6	19	18	15	11
	5392	0.79	0.4 PPM	6643.1	2161.8	157.8	35.5	15.9	7.6	20	18	14	10
27-Apr-15	5434	0.82		1491.1	809.7	141.3	34.4	15.1	7.1	18	17	14	10
	5435	0.59		1337.8	619.6	77.5	20.0	9.5	5.2	18	16	13	10
	5436	0.57		903.4	530.3	92.0	24.2	11.6	5.9	17	16	14	10
	5439	0.73		1585.6	650.9	65.6	16.2	8.3	4.4	18	17	13	9
	5440	0.44		915.0	425.0	39.1	8.5	3.0	1.2	17	16	12	7
	5441	0.27		241.3	99.4	8.1	1.7	0.6	0.2	15	14	10	5
	5442	0.33		335.0	98.9	4.9	0.6	0.3	0.1	16	14	9	4
	5443	0.38		403.0	140.2	10.8	2.5	1.2	0.7	16	14	11	7
28-Apr-15	5503	0.12	0.6 PPM	5414.5	1487.1	137.6	33.9	15.9	7.7	20	18	14	10
	5504	2.54		16335.0	4218.2	347.4	88.1	44.7	22.7	21	19	16	12
	5505	0.55		1167.2	325.7	35.7	10.6	5.2	2.5	17	16	12	8
	5506	0.49		1195.1	371.9	40.9	13.1	7.0	3.9	17	16	13	9
30-Apr-15	5542	0.93		651.2	281.3	32.9	10.1	5.6	2.9	17	15	12	9
	5543	0.22		1299.0	542.7	63.9	18.2	9.0	4.8	17	16	13	9
	5545	0.42		797.4	349.0	58.4	20.2	11.2	6.3	17	16	13	10
1-May-15	5609	0.23		452.9	88.8	7.0	1.7	1.0	0.5	16	14	10	6
	5610	0.12		240.5	186.8	145.7	92.4	75.0	58.7	15	15	14	13
	5611	0.46		118.3	37.7	4.0	1.4	0.8	0.4	14	12	9	6
	5612	0.31		768.5	288.3	22.7	6.5	3.4	1.9	17	15	12	8
	5613	0.24		95.5	26.6	2.2	0.9	0.5	0.2	14	12	8	5
	5614	0.23		46.4	9.6	0.7	0.3	0.2	0.1	13	10	7	4
4-May-15	5616	0.44		2651.4	616.0	43.9	9.4	4.2	2.1	19	16	13	8
5-May-15	5686	0.57		2303.5	812.5	73.6	17.2	7.4	3.5	18	17	13	9
	5687	0.45	0.4 PPM	4670.6	1444.0	98.9	17.3	7.7	3.4	19	18	14	9
	5688	0.50		253.6	102.0	17.2	4.8	2.6	1.2	15	14	11	7
	5689	0.52		133.4	56.3	7.4	2.5	1.5	0.8	14	13	10	7
	5690	0.55		372.7	161.7	25.1	6.5	3.2	1.5	16	15	12	8
6-May-15	5716	0.65		1593.5	641.2	63.9	17.7	8.7	4.0	18	17	13	9
	5718	0.41		1361.9	572.5	52.4	14.9	8.1	4.6	18	16	13	9
	5720	0.41		2024.4	818.5	49.7	11.5	5.3	3.2	18	17	13	9
	5722	0.38		1673.2	580.2	49.8	13.5	7.1	3.9	18	16	13	9
	5724	0.43		1416.9	561.2	53.8	16.0	8.0	3.5	18	16	13	9
	5727	0.52		1388.5	513.0	44.0	11.7	5.8	3.1	18	16	13	9
	5729	0.76		698.3	284.9	27.5	7.3	4.1	2.0	17	15	12	8
	5731	0.49		1909.0	620.4	57.9	14.7	7.0	3.5	18	16	13	9
	5734	0.56		1525.3	535.8	73.0	21.1	10.8	5.8	18	16	13	10
	5738	0.68	0.4 PPM	6447.3	2263.1	124.9	29.7	14.1	6.3	20	18	14	10
	5742	0.95	0.4 PPM	10425.4	3817.1	215.3	42.6	20.5	10.2	21	19	15	11
7-May-15	5769	0.48		717.5	346.0	49.5	15.6	8.2	4.0	17	16	13	9
	5770	0.97		1951.8	762.1	76.0	20.7	10.6	5.8	18	17	13	10
11-May-15	5890	0.58		2001.3	394.5	42.7	13.3	8.0	4.3	18	16	13	9
	5893	0.40		797.7	331.2	37.8	10.0	5.5	3.0	17	16	12	9
	5894	1.04		1160.7	548.5	79.7	31.7	22.3	12.4	17	16	13	11
	5896	0.49		447.1	215.2	25.3	6.8	3.2	1.7	16	15	12	8
	5899	0.35		1814.4	587.8	26.7	5.2	2.2	1.0	18	16	12	7
	5901	0.31		1764.0	713.5	80.3	16.7	7.3	3.1	18	17	14	9
	5904	0.52		1383.2	502.2	46.5	9.5	3.7	1.7	18	16	13	8
12-May-15	5926	0.45		1596.2	533.4	50.0	14.5	7.3	3.7	18	16	13	9
	5927	0.55		1327.8	538.9	78.8	21.7	10.3	5.3	18	16	13	10
	5928	0.44		829.2	309.5	38.4	12.5	6.5	3.9	17	15	12	9
	5953	1.53		1042.6	340.7	19.2	5.5	2.7	1.5	17	16	11	8
	5954	0.65		803.0	143.1	9.0	2.3	1.3	0.7	17	14	10	7
14-May-15	6002	0.58		2165.6	782.0	82.5	25.6	13.8	7.0	18	17	14	10
15-May-15	6036	0.45		1244.9	449.5	54.2	19.1	10.6	6.2	17	16	13	10
	6037	1.10		9266.3	2578.6	121.4	23.5	11.8	5.7	20	19	14	10
	6038	0.48		387.3	188.5	28.5	8.4	4.6	2.6	16	15	12	9
18-May-15	6066	0.50		610.4	223.3	30.1	10.8	6.3	3.6	16	15	12	9
	6067	0.32		488.5	216.2	21.4	5.9	2.7	1.2	16	15	12	7
	6068	0.20		116.6	70.1	14.8	2.8	1.1	0.2	14	13	11	5
	6069	0.51		36.8	10.1	1.9	1.0	0.6	0.6	12	11	8	6
20-Jul-15	5503	0.12	0.6 PPM	2263.2	1236.4	164.6	35.8	15.7	6.5	18	17	15	10
	6498	0.41		1848.4	1061.1	143.3	33.5	15.6	7.3	18	17	14	10
	6499	0.20		1149.2	667.1	115.7	28.1	14.3	7.1	17	17	14	10
	6500	0.71		1298.2	703	106.2	25.8	12.3	6.1	17	17	14	10
	6501	0.49		1411.3	825.8	119.9	29.2	12.8	6.1	18	17	14	10

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
	6532	0.58		1412.7	826	93.8	21.9	11.6	5.5	18	17	14	10
	7586	0.69		344.6	147.8	21.0	5.9	3.0	1.7	16	14	12	8
	7572	0.78		766.7	318.7	58.7	22.2	12.1	6.2	17	15	13	10
	7587	0.51		244.1	109.5	16.6	4.6	2.4	1.3	15	14	11	7
	7588	0.42		306.8	126.3	17.1	4.9	2.5	1.2	15	14	11	7
	7589	0.70		218	91.7	12.0	3.0	1.9	1.1	15	14	11	7
	7590	0.59		235.5	111.5	18.2	5.8	3.2	1.6	15	14	11	8
	7591	0.62		162.3	61.5	11.3	4.0	2.0	1.1	15	13	11	7
	7592	1.34		8235.9	3780.8	402.4	75.4	33.7	17.0	20	19	16	11
	7593	1.15		6091.7	2819.5	406.7	92.6	40.7	19.1	20	19	16	11
22-Jul-15	7599	0.85		1328.6	595.1	88.6	28.9	15.8	8.3	18	16	14	10
	7613	0.57		872.4	347.2	46.2	14.2	8.4	4.8	17	16	13	9
23-Jul-15	7634	0.60		3221	1255.8	128.3	32.1	15.3	7.5	19	17	14	10
	7635	0.59		557.5	272.2	39.8	10.7	5.4	2.6	16	15	12	9
24-Jul-15	7444	0.30		335.5	170.1	38.0	13.1	7.1	3.4	16	15	12	9
	7658	0.63		851.2	261.3	35.5	13.1	7.1	4.0	17	15	12	9
	7528	1.73		1786.5	838.5	100.9	26.9	13.6	7.4	18	17	14	10
	7445	2.63		4727.7	2594.9	251.3	55.7	25.3	11.6	19	19	15	11
	7303	0.65		1443.4	743.7	101.0	28.8	15.6	8.1	18	17	14	10
	7665	0.17		412.3	149.7	13.2	3.6	1.7	0.6	16	14	11	6
	7666	0.28		265.3	95	11.5	3.4	1.7	0.8	15	14	11	7
	7298	0.63		1217.5	619.2	84.6	22.4	11.3	5.7	17	16	14	10
	7299	0.57		1827	838.5	100.5	26.8	14.0	7.3	18	17	14	10
	7300	0.68	0.4 PPM	3004	1627	206.1	46.7	22.0	10.0	19	18	15	10
	7301	1.07		4456.5	2461.7	174.4	26.7	11.5	5.4	19	18	15	10
	7302	0.93	0.6 PPM	4027	1868.4	131.8	35.3	18.9	10.2	19	18	14	11
	7304	0.91		1341.8	643.7	71.5	13.5	6.2	2.7	18	17	13	9
	7305	0.90		1404.3	698.2	81.5	20.0	9.5	5.2	18	17	14	10
	7306	0.55		1048.3	518.5	73.5	20.6	10.7	5.6	17	16	13	10
	7307	0.01		734.5	411.8	96.0	27.9	14.8	7.9	17	16	14	10
	7308	1.02		927.2	480.1	92.6	28.2	14.5	7.8	17	16	14	10
	7345	0.42		798.2	462.1	53.5	17.6	11.6	9.1	17	16	13	10
27-Jul-15	7700	0.19		603.2	251.5	32.7	10.2	5.0	2.5	16	15	12	8
	7701	0.85		2838	770.5	92.0	28.8	14.6	7.5	19	17	14	10
28-Jul-15	7743	0.92		582.3	304.9	54.6	17.7	9.2	5.0	16	15	13	9
	6594	0.76		1328.5	682.7	77.0	19.2	10.2	6.3	18	17	13	10
	6634	0.87		531.2	350.1	71.5	23.7	13.0	7.1	16	16	13	10
	6635	0.10		166.3	125.8	50.8	17.5	9.9	5.3	15	14	13	10
	6708	0.34	1.0 PPM	10811	3064.3	259.2	106.2	64.6	41.6	21	19	15	13
	6747	0.72		594.7	380.3	115.7	41.4	23.6	12.3	16	16	14	11
	6769	0.53		1385.5	841.7	92.0	22.1	9.6	4.7	18	17	14	9
	6790	0.56		295.2	181.4	34.5	9.8	5.0	2.5	15	15	12	8
	6794	0.29		223.1	139.8	27.8	7.5	3.6	1.9	15	14	12	8
	6906	0.32		153.5	108.8	26.6	7.3	3.4	1.8	14	14	12	8
	6953	0.41		2446.3	906.5	82.5	21.0	11.4	6.0	18	17	14	10
	6664	0.30		653.3	342.4	43.2	11.9	6.1	3.4	17	16	13	9
	6502	0.75		632.7	345.1	62.9	21.1	11.2	6.7	16	16	13	10
	7038	0.49		476.6	322.8	49.5	13.5	7.1	3.7	16	16	13	9
	7249	0.58		298.7	173.9	29.7	6.7	3.2	1.4	15	15	12	8
	6986	0.22		525.6	327	87.8	26.2	13.3	6.8	16	16	14	10
	7750	0.55		458.1	217.8	32.3	9.1	4.8	2.5	16	15	12	8
	7751	0.27		678.3	317.3	50.6	14.7	7.5	3.3	17	15	13	9
	7752	0.30		546.2	254.5	41.2	13.3	7.6	4.0	16	15	13	9
	7753	0.32		715.2	289.3	36.3	10.8	5.4	2.8	17	15	12	9
	6746	0.35		793	445	59.0	15.7	7.2	3.5	17	16	13	9
	7044	0.50		371.2	227.7	67.1	22.0	11.2	5.9	16	15	13	10
	7046	0.44		152.3	85.1	14.3	3.9	2.0	1.0	14	14	11	7
	7047	0.26		112.4	75.4	16.0	4.5	2.3	0.9	14	13	11	7
	7145	8.10		18758.6	9106.2	1043.8	263.3	123.9	58.7	21	20	17	13
	6560	0.57		619.5	354.2	67.5	19.5	9.3	4.8	16	16	13	9
	6585	0.38		640.2	289	56.4	11.7	4.3	1.6	17	15	13	8
	6675	0.57		304	195.7	69.0	24.8	13.3	7.3	15	15	13	10
	6711	0.23		792.2	383.5	35.5	7.2	3.7	1.7	17	16	12	8
	6954	0.61		1321.3	805	135.0	38.7	19.7	10.7	18	17	14	11
	6791	0.44		338.7	203.2	29.2	7.4	3.5	1.8	16	15	12	8
	6792	0.61		325.1	185.9	30.2	7.7	4.2	2.2	16	15	12	8
	7034	0.48		2053.7	1050	98.8	24.0	12.4	5.9	18	17	14	10
	7039	0.21		972.4	533.4	64.3	18.3	10.0	5.9	17	16	13	10
	7045	0.44		215.9	138.7	25.8	6.8	3.2	1.7	15	14	12	8
30-Jul-15	7776	0.28		469.7	223.0	37.0	11.3	6.0	3.4	16	15	12	9

Date	Sample #	Particulate	Free Water	≥ 4 μm	≥ 6 μm	≥ 14 μm	≥ 21 μm	≥ 25 μm	≥ 30 μm	ISO 4μm	ISO 6μm	ISO 14μm	ISO 30μm
4-Aug-15	7943	0.40		871.9	349.8	40.8	12.3	6.7	3.5	17	16	13	9
	7944	0.50		183.8	71.5	11.6	3.2	1.8	0.9	15	13	11	7
	7945	0.48		217.1	79.1	11.2	3.4	1.8	1.0	15	13	11	7
	7946	0.52		789.7	252.2	22.4	6.7	3.1	1.4	17	15	12	8
	7948	0.47		473.9	255.1	33.2	9.8	5.0	2.4	16	15	12	8
	7949	0.32		346.4	184.8	26.4	7.0	3.9	1.9	16	15	12	8
5-Aug-15	7950	0.00		1101.6	307.1	43.0	15.2	9.1	5.7	17	15	13	10
6-Aug-15	7972	6.54		14923.6	3233.2	230.2	85.0	51.1	30.3	21	19	15	12
	7973	1.49		2570.5	507.1	22.1	6.6	4.3	2.4	19	16	12	8
7-Aug-15	8018	1.37		6952.4	1836.9	149.1	48.2	26.8	15.8	20	18	14	11
	8019	0.63		2100.9	496.8	37.5	12.8	7.9	4.6	18	16	12	9
	8024	0.67		597.0	258.6	30.6	8.3	4.4	2.0	16	15	12	8
	8027	0.37		532.2	213.3	27.2	7.5	4.7	2.7	16	15	12	9
	8028	0.39		439.0	187.7	24.5	7.4	4.0	1.7	16	15	12	8
	8029	0.10		571.7	228.2	25.7	7.1	3.5	2.1	16	15	12	8
	8031	0.00		547.0	250.4	34.2	10.6	5.5	3.2	16	15	12	9
	8033	0.15		629.2	190.7	32.2	10.7	6.3	3.8	16	15	12	9
	8036	0.37		596.0	267.2	36.1	9.8	5.5	2.9	16	15	12	9
	8038	0.00		391.8	118.2	20.8	6.6	3.5	1.8	16	14	12	8
	8040	0.82		667.7	260.3	30.1	9.1	4.3	2.2	17	15	12	8
	8041	0.85		1389.1	395.3	42.6	13.4	7.5	4.3	18	16	13	9
	8042	0.49		1783.4	682.7	83.5	22.6	11.5	6.2	18	17	14	10
	8084	0.01		192.0	91.1	13.6	3.5	2.0	1.1	15	14	11	7
	8085	0.05		366.5	126.8	11.5	2.8	1.7	0.8	16	14	11	7
	8086	0.26		122.8	57.6	8.5	3.2	1.5	1.1	14	13	10	7
	8087	0.23		151.7	72.1	8.8	2.5	1.3	0.7	14	13	10	7
11-Aug-15	8122	0.42		391.8	163.0	17.5	4.6	2.0	1.1	16	15	11	7
	8123	0.49		334.0	149.8	16.1	3.9	1.7	1.0	16	14	11	7
	8124	0.76	0.4 PPM	3402.0	1444.7	124.6	32.2	16.5	8.8	19	18	14	10
	8125	0.49		843.9	442.1	75.9	19.7	9.8	4.9	17	16	13	9
	8126	0.18	0.12 PPM	6595.6	1764.8	61.7	18.0	10.5	6.3	20	18	13	10
13-Aug-15	8222	0.56		325.6	149.5	23.4	7.5	4.0	2.1	16	14	12	8
17-Aug-15	8267	1.15		8390.7	3030.7	165.6	27.8	9.9	3.8	20	19	15	9
	8268	0.61		480.2	157.9	27.4	11.1	6.3	3.5	16	14	12	9
	8269	0.90		93.7	30.3	4.3	1.3	0.6	0.4	14	12	9	6
	8270	6.67		23042.4	10073.5	850.5	181.0	85.7	41.5	22	21	17	13
	8271	0.60		1206.9	382.6	31.1	6.9	3.4	2.1	17	16	12	8
18-Aug-15	8293	0.62		330.0	160.8	27.3	7.5	3.5	1.6	16	15	12	8
	8285	0.71		1533.2	568.4	63.8	15.7	7.9	3.7	18	16	13	9
	8286	0.46		1170.4	491.6	72.0	21.0	11.2	6.0	17	16	13	10
	8288	0.24		1272.0	522.7	65.1	18.2	9.9	5.3	17	16	13	10
	8289	1.14		868.4	399.0	59.5	17.7	9.4	4.8	17	16	13	9
	8290	0.00		445.2	233.0	40.5	11.8	6.1	3.0	16	15	13	9
	8291	0.13		769.0	442.5	84.2	26.0	12.6	6.8	17	16	14	10
	8292	0.00		689.3	359.1	73.6	21.7	11.3	5.8	17	16	13	10
21-Aug-15	8349	0.24		261.7	117.4	17.4	5.4	2.6	1.1	15	14	11	7
	8354	0.19		28.2	10.7	1.7	0.8	0.5	0.2	12	11	8	5
26-Aug-15	8411	0.08		589.6	237.1	30.4	10.0	5.5	3.2	16	15	12	9
	8412	0.09	8.8 PPM	89268.6	29881.3	339.5	18.9	12.3	8.9	24	22	16	10
27-Aug-15	8426	0.40	1.0 PPM	19222.7	5702.6	86.0	17.1	11.5	8.0	21	20	14	10
31-Aug-15	8575	0.58		1105.8	289.7	29.0	8.6	4.6	2.9	17	15	12	9
	8593	0.91	1.8 PPM	5829.3	1446.5	121.9	34.2	20.3	12.5	20	18	14	11
	8600	0.73		581.0	243.2	27.1	7.5	4.0	2.6	16	15	12	9
	8605	0.36		1005.3	388.3	61.0	19.8	10.5	6.0	17	16	13	10
	8606	0.37		667.7	283.9	40.2	13.4	7.3	3.8	17	15	13	9
	8607	0.68		639.6	231.3	34.9	11.8	6.9	3.5	16	15	12	9
	8608	0.42		488.7	191.0	24.7	7.5	3.6	1.9	16	15	12	8
	8609	0.69		560.6	234.0	40.1	14.4	8.1	4.8	16	15	13	9
	8610	0.67		739.0	306.4	53.7	19.4	11.5	6.8	17	15	13	10
3-Sep-15	8680	0.40	1.8 PPM	8495.2	1883.8	103.4	33.4	21.7	15.0	20	18	14	11
	8681	0.48		691.8	250.6	35.4	9.9	4.9	2.0	17	15	12	8
	8684	0.50		652.7	237.4	43.7	13.7	7.1	3.4	17	15	13	9
	8686	0.43		1655.6	928.0	237.2	48.1	24.2	12.8	18	17	15	11
	8689	0.82		2133.8	770.0	94.6	29.2	16.0	8.3	18	17	14	10
8-Sep-15	8760	0.64		351.2	157.1	25.8	8.7	4.7	2.6	16	14	12	9
	8761	0.94		1853.1	971.1	265.0	89.7	46.0	23.0	18	17	15	12
	8762	0.54		774.7	360.8	73.0	24.9	13.9	7.3	17	16	13	10
	8763	1.21		1222.4	650.6	184.1	62.7	31.1	15.0	17	17	15	11
	8764	0.18		263.5	131.3	27.2	9.0	5.2	2.7	15	14	12	9
	8765	0.58		698.2	369.2	119.2	40.5	19.7	9.6	17	16	14	10

Date	Sample #	Particulate	Free Water	≥ 4 µm	≥ 6 µm	≥ 14 µm	≥ 21 µm	≥ 25 µm	≥ 30 µm	ISO 4µm	ISO 6µm	ISO 14µm	ISO 30µm
	8766	1.08		1437.3	713.2	204.0	74.7	38.0	17.6	18	17	15	11
	8767	0.90		658.3	360.6	68.8	19.5	9.6	4.7	17	16	13	9
9-Sep-15	8793	0.65		470.1	122.2	16.7	7.5	4.9	3.2	16	14	11	9
	8794	1.29		3350.2	549.7	49.0	17.0	10.0	6.0	19	16	13	10
14-Sep-15	8874	0.65	1.8 PPM	8973.4	793.6	41.9	15.8	10.5	6.8	20	17	13	10
	8880	0.36		1303.9	527.0	53.4	10.8	4.3	1.8	18	16	13	8
	8890	2.09		7424.7	2004.4	242.6	88.3	54.7	33.9	20	18	15	12
	8891	4.82		32169.1	9559.5	560.2	212.4	149.4	108.2	22	20	16	14
	8892	1.94		4785.7	1477.9	187.5	63.7	38.2	23.2	19	18	15	12
	8893	1.60		29158.0	5691.5	356.7	119.0	74.5	51.2	22	20	16	13
	8894	1.82		61302.8	17845.0	493.5	106.3	57.9	31.2	23	21	16	12
	8895	1.23		844.5	180.2	25.0	10.5	6.5	3.9	17	15	12	9
	8896	1.71		50353.4	13242.0	495.9	124.1	66.0	38.4	23	21	16	12
	8897	1.10		17305.5	3918.0	232.6	72.9	49.8	32.2	21	19	15	12
	8898	3.26		17162.4	4606.8	577.9	247.1	170.9	117.6	21	19	16	14
	8899	1.82		67780.1	20244.6	400.1	100.2	62.7	41.3	23	22	16	13
15-Sep-15	8902	1.20		5819.1	1621.4	127.5	41.9	22.0	11.6	20	18	14	11
17-Sep-15	8962	0.62		1641.7	692.4	50.7	12.1	5.8	3.0	18	17	13	9
21-Sep-15	9086	0.79		3695.9	1210.8	144.6	35.9	15.6	6.2	19	17	14	10
24-Sep-15	9184	0.24		654.5	279.2	37.6	13.3	7.5	4.0	17	15	12	9
28-Sep-15	9234	1.96		4459.7	1503.5	104.4	21.8	10.9	5.3	19	18	14	10
	9235	17.22		82895.1	43639.5	4736.2	1112.3	546.8	278.8	24	23	19	15
	9236	12.35		51848.6	21101.1	2955.1	1056.9	643.5	395.5	23	22	19	16
	9267	0.98		1993.4	708.0	56.2	15.8	8.4	4.5	18	17	13	9
	9268	4.12		54648.8	6704.4	439.4	173.8	112.5	74.8	23	20	16	13
	9269	0.90	29.4 PPM	7736.5	2317.0	380.6	138.8	82.7	46.3	20	18	16	13
	9270	3.70		13215.8	3518.4	488.0	201.2	126.6	78.0	21	19	16	13
29-Sep-15	9307	0.88		558.1	129.8	6.8	2.2	1.2	0.5	16	14	10	6
	9308	0.87		2980.9	760.6	56.6	13.8	6.5	3.2	19	17	13	9
	9309	0.94		2213.0	601.7	45.7	10.8	5.0	2.5	18	16	13	8
	9310	0.56		504.6	111.3	5.4	1.5	0.8	0.3	16	14	10	5
	9311	0.50		409.4	97.6	4.8	1.4	0.6	0.3	16	14	9	5
	9312	0.89		817.2	220.4	10.4	2.5	1.2	0.6	17	15	11	6
	9313	0.52		867.2	219.5	14.6	3.0	1.4	0.7	17	15	11	7
2-Oct-15	30	0.44		2972.6	1130.9	83.2	18.1	9.1	5.0	19	17	14	9
	31	0.29		526.0	173.3	30.9	7.0	2.9	1.3	16	15	12	7
	32	0.41		3751.5	789.1	117.5	33.0	16.3	7.6	19	17	14	10
	33	0.24	0.4 PPM	7244.1	1749.5	161.8	35.2	14.5	6.4	20	18	15	10
6-Oct-15	64	0.89		1983.1	855.9	99.4	28.3	15.7	8.4	18	17	14	10
	71	1.36		4528.7	1275.5	125.6	41.7	23.0	12.6	19	17	14	11
8-Oct-15	113	0.43		1167.0	390.5	46.9	17.1	10.5	6.1	17	16	13	10
	114	0.51		367.6	209.8	43.5	14.8	8.0	3.8	16	15	13	9
13-Oct-15	209	0.56		546.2	132.6	16.1	6.4	4.0	2.5	16	14	11	8
	210	0.50		294.5	168.1	33.0	10.1	5.3	2.9	15	15	12	9
	211	0.35		80.5	39.1	6.9	2.4	1.3	0.8	14	12	10	7
	212	0.52		155.0	81.0	15.4	5.7	2.9	1.7	14	14	11	8
	213	0.49		129.1	58.4	7.7	2.7	1.5	0.7	14	13	10	7
	214	0.42		434.6	193.4	27.2	9.0	5.1	3.2	16	15	12	9
	215	0.48		217.3	95.2	15.3	4.4	2.4	1.4	15	14	11	8
	216	0.51		188.8	88.6	13.6	4.4	2.5	1.3	15	14	11	7
	217	0.61		287.9	147.9	25.7	8.1	4.3	2.2	15	14	12	8
	218	0.34		82.7	41.0	7.5	2.4	1.3	0.7	14	13	10	7
	219	0.57		868.3	182.8	17.2	5.0	3.2	1.9	17	15	11	8
	220	0.57		3332.3	874.6	52.0	17.6	10.3	6.4	19	17	13	10
	221	1.34		9014.1	2077.5	191.8	72.5	47.7	34.6	20	18	15	12
	222	0.56		3282.8	851.4	50.7	19.3	12.5	7.3	19	17	13	10
	227	0.71	0.4 PPM	6262.1	1879.9	57.5	8.1	3.1	1.4	20	18	13	8
	229	0.42		1490.5	311.3	10.6	2.0	1.2	0.6	18	15	11	6
	290	0.44		1190.0	755.9	260.0	54.4	25.4	12.1	17	17	15	11
	291	0.17		498.8	292.1	111.1	33.7	20.7	12.5	16	15	14	11
15-Oct-15	330	0.45		993.5	287.9	26.2	6.9	3.5	1.3	17	15	12	7
	331	0.41		1066.0	339.2	35.2	9.3	4.8	2.5	17	16	12	8
	332	0.54		2370.3	709.2	67.8	19.2	9.5	5.2	18	17	13	10
	333	0.46		2467.0	460.5	42.7	14.4	8.8	5.0	18	16	13	9